

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP2-P-D-4FT-V-8TW-MLW-KPL2008-7.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] KPL2008-7.900 Family Correlation File

[TESTLAB] Northern Lights Testing Laboratories

[ISSUEDATE] 2/10/2022

[MANUFAC] Finelite Inc.

[LUMCAT] HP2-P-D-4ft-V-835-MLW

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com

for lumen adjustment factors for other CCT's & CRI's

[LUMINAIRE] HP2 Series

[LAMPCAT] 128 NFSW757GT-V3 LEDs with 80 CRI

[LAMP] Nichia

[BALLAST] Osram

[BALLASTCAT] OTi50, 700mA

[MORE] extrapolated from KPL2008-7.IES

[OTHER]see www.finelite.com for source file KPL2008-7. For further details on Finelite family correlation files, go to

[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3465
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	36.07
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.56
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5278	5157	4994
55	4398	4274	4068
65	3751	3549	3321
75	3179	2948	2663
85	2499	2257	2025

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14
2.5	8503.90	8541.48	8595.01	8600.65	8569.65	8540.53	8533.96	8507.66	8508.60	8516.11
5.0	8023.01	8046.49	8108.48	8111.30	8097.21	8066.22	8035.22	8048.37	8054.95	8069.03
7.5	7259.78	7290.87	7338.40	7346.29	7353.52	7356.62	7372.40	7362.63	7357.93	7384.89
10.0	6204.26	6267.29	6333.78	6391.17	6397.56	6410.71	6498.06	6524.45	6560.52	6618.00
12.5	5066.28	5120.75	5185.18	5218.90	5260.89	5291.60	5436.90	5509.50	5610.66	5747.98
15.0	4127.97	4147.60	4207.34	4252.23	4309.81	4389.46	4421.02	4530.91	4648.12	4815.97
17.5	3213.52	3220.57	3297.68	3369.81	3424.95	3489.66	3571.94	3674.60	3767.49	3940.12
20.0	2242.72	2300.58	2338.24	2430.10	2515.67	2640.02	2766.73	2901.79	2987.36	3079.02
22.5	1508.42	1539.70	1591.36	1757.98	1868.15	1898.12	1996.36	2155.37	2271.09	2319.55
25.0	1017.95	1034.48	1068.01	1125.59	1173.77	1253.04	1358.71	1480.34	1587.79	1761.55
27.5	730.47	736.23	741.42	752.32	765.44	856.12	924.59	972.96	1047.91	1166.16
30.0	533.28	540.68	555.89	574.11	597.27	630.44	660.08	676.94	709.85	745.10
32.5	406.56	413.99	406.64	431.62	452.85	472.82	493.63	503.38	509.44	525.59
35.0	339.33	341.81	348.37	350.53	355.49	366.38	382.86	395.35	397.28	395.49
37.5	309.27	310.41	311.90	312.64	311.96	312.71	315.44	322.87	326.89	327.41
40.0	283.20	280.14	287.56	287.13	285.91	285.54	282.76	282.81	282.92	281.92
42.5	259.63	260.09	261.42	262.55	261.63	261.57	260.42	258.27	255.02	252.60
45.0	235.99	237.01	238.24	239.39	238.97	238.27	237.54	236.30	233.66	230.60
47.5	206.82	215.09	216.59	217.77	217.37	216.79	215.95	214.18	212.77	209.85
50.0	194.08	195.12	196.34	196.60	196.69	195.71	195.13	193.96	192.35	191.47
52.5	177.14	177.49	178.62	179.10	178.92	177.47	176.47	176.15	174.92	172.51
55.0	159.52	157.24	161.31	161.75	160.88	159.60	158.53	158.41	156.86	155.00
57.5	143.05	143.27	144.25	145.14	143.83	142.91	142.29	141.77	139.97	138.11
60.0	127.47	127.83	128.60	129.02	128.32	127.64	127.00	126.13	124.83	122.75
62.5	113.72	113.96	112.47	114.42	113.52	112.86	112.61	111.16	110.04	108.28
65.0	100.25	100.09	100.51	100.42	99.63	99.57	98.79	97.55	96.11	94.85
67.5	86.64	86.79	87.30	87.51	86.91	86.56	85.50	84.72	83.42	82.04
70.0	74.46	74.59	75.00	73.69	74.41	74.03	73.18	72.12	71.45	70.16
72.5	62.22	62.91	63.21	63.14	62.54	62.17	61.68	60.70	59.92	58.84
75.0	52.02	51.72	51.84	52.06	51.86	51.11	50.52	50.16	49.32	48.24
77.5	41.44	41.49	41.44	41.26	40.20	40.69	40.16	39.58	39.23	38.31
80.0	32.10	31.95	31.55	31.79	31.44	31.19	30.64	30.32	29.62	29.18
82.5	22.37	22.48	22.48	22.43	22.39	21.82	21.56	21.36	20.79	20.40
85.0	13.77	13.73	13.96	13.80	13.67	12.76	13.07	12.89	12.76	12.44
87.5	5.62	5.82	5.81	5.79	5.77	5.71	5.61	5.30	5.38	5.16
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14
2.5	8525.51	8533.96	8523.63	8533.02	8513.30	8545.23	8533.96	8533.96	8539.59	8533.96
5.0	8083.12	8091.58	8081.24	8081.24	8070.91	8105.66	8108.48	8101.91	8100.03	8101.91
7.5	7439.55	7433.64	7446.41	7457.49	7441.62	7476.47	7473.46	7471.30	7446.88	7471.30
10.0	6670.69	6706.57	6733.90	6739.82	6742.45	6743.76	6755.78	6762.36	6757.66	6762.36
12.5	5832.70	5880.32	5946.91	5954.42	5964.85	5992.93	5990.87	5985.23	6004.77	5985.23
15.0	4942.86	5056.32	5112.02	5142.17	5131.46	5110.61	5161.33	5125.26	5125.45	5125.26
17.5	4030.67	4143.75	4183.29	4195.31	4126.19	4068.52	4048.98	4036.02	4031.04	4036.02
20.0	3151.44	3162.43	3186.19	3198.97	3223.29	3208.55	3189.58	3173.23	3157.36	3173.23
22.5	2345.57	2356.19	2397.04	2443.35	2480.07	2469.93	2449.26	2424.56	2393.94	2424.56
25.0	1849.84	1869.66	1873.98	1872.85	1851.43	1822.32	1800.06	1777.33	1776.86	1777.33
27.5	1292.96	1323.86	1261.97	1195.56	1135.08	1106.15	1073.18	1044.16	1044.25	1044.16
30.0	774.23	787.74	764.53	743.27	723.68	708.45	695.14	687.32	676.84	687.32
32.5	538.11	547.28	522.80	506.67	504.62	502.95	498.75	497.69	498.89	497.69
35.0	395.65	390.81	390.50	389.75	392.22	385.17	379.34	375.32	378.63	375.32
37.5	324.23	321.79	321.39	318.94	315.58	307.91	303.67	300.96	299.99	300.96
40.0	279.49	277.52	278.46	272.08	269.00	266.93	265.39	265.76	265.06	265.76
42.5	248.37	247.25	245.63	245.10	245.23	245.04	244.23	244.45	244.96	244.45
45.0	227.05	225.29	224.89	224.87	225.04	224.13	223.30	223.35	223.28	223.35
47.5	207.35	205.97	205.50	206.56	204.73	203.52	202.48	202.74	202.37	202.74
50.0	190.21	189.15	188.30	188.28	188.05	186.82	185.70	185.79	187.15	185.79
52.5	170.11	169.24	168.06	167.76	166.67	166.47	164.68	164.40	165.31	164.40
55.0	152.77	151.26	150.14	150.40	151.68	148.79	147.43	147.55	147.54	147.55
57.5	136.19	134.95	133.89	133.63	133.35	132.48	131.55	131.00	131.46	131.00
60.0	120.87	119.23	118.91	118.60	118.11	118.01	116.67	116.66	116.39	116.66
62.5	106.77	104.97	104.49	104.17	104.45	104.77	102.88	102.11	101.93	102.11
65.0	93.03	92.42	91.56	91.29	90.59	89.87	89.35	88.54	88.74	88.54
67.5	80.40	79.86	79.12	78.76	78.28	77.45	76.92	75.95	76.12	75.95
70.0	69.22	67.96	67.44	67.01	66.56	66.02	65.97	64.42	64.34	64.42
72.5	57.75	57.15	56.47	55.90	55.42	54.97	53.90	53.67	53.42	53.67
75.0	47.36	46.53	46.36	45.72	45.43	44.81	44.00	43.58	43.58	43.58
77.5	37.62	36.87	36.57	36.29	35.99	35.49	35.15	35.66	34.55	35.66
80.0	28.44	28.05	27.80	27.58	26.99	26.93	26.75	26.50	26.45	26.50

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CANDELA TABULATION - (Cont.)

82.5	19.94	19.56	19.44	19.38	19.19	18.87	18.71	18.49	18.24	18.49
85.0	12.47	12.00	11.97	11.74	11.45	11.48	11.36	11.21	11.16	11.21
87.5	5.32	4.91	4.95	4.82	4.81	4.77	4.63	4.69	4.58	4.69
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14
2.5	8533.96	8545.23	8513.30	8533.02	8523.63	8533.96	8525.51	8516.11	8508.60	8507.66
5.0	8108.48	8105.66	8070.91	8081.24	8081.24	8091.58	8083.12	8069.03	8054.95	8048.37
7.5	7473.46	7476.47	7441.62	7457.49	7446.41	7433.64	7439.55	7384.89	7357.93	7362.63
10.0	6755.78	6743.76	6742.45	6739.82	6733.90	6706.57	6670.69	6618.00	6560.52	6524.45
12.5	5990.87	5992.93	5964.85	5954.42	5946.91	5880.32	5832.70	5747.98	5610.66	5509.50
15.0	5161.33	5110.61	5131.46	5142.17	5112.02	5056.32	4942.86	4815.97	4648.12	4530.91
17.5	4048.98	4068.52	4126.19	4195.31	4183.29	4143.75	4030.67	3940.12	3767.49	3674.60
20.0	3189.58	3208.55	3223.29	3198.97	3186.19	3162.43	3151.44	3079.02	2987.36	2901.79
22.5	2449.26	2469.93	2480.07	2443.35	2397.04	2356.19	2345.57	2319.55	2271.09	2155.37
25.0	1800.06	1822.32	1851.43	1872.85	1873.98	1869.66	1849.84	1761.55	1587.79	1480.34
27.5	1073.18	1106.15	1135.08	1195.56	1261.97	1323.86	1292.96	1166.16	1047.91	972.96

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

30.0	695.14	708.45	723.68	743.27	764.53	787.74	774.23	745.10	709.85	676.94
32.5	498.75	502.95	504.62	506.67	522.80	547.28	538.11	525.59	509.44	503.38
35.0	379.34	385.17	392.22	389.75	390.50	390.81	395.65	395.49	397.28	395.35
37.5	303.67	307.91	315.58	318.94	321.39	321.79	324.23	327.41	326.89	322.87
40.0	265.39	266.93	269.00	272.08	278.46	277.52	279.49	281.92	282.92	282.81
42.5	244.23	245.04	245.23	245.10	245.63	247.25	248.37	252.60	255.02	258.27
45.0	223.30	224.13	225.04	224.87	224.89	225.29	227.05	230.60	233.66	236.30
47.5	202.48	203.52	204.73	206.56	205.50	205.97	207.35	209.85	212.77	214.18
50.0	185.70	186.82	188.05	188.28	188.30	189.15	190.21	191.47	192.35	193.96
52.5	164.68	166.47	166.67	167.76	168.06	169.24	170.11	172.51	174.92	176.15
55.0	147.43	148.79	151.68	150.40	150.14	151.26	152.77	155.00	156.86	158.41
57.5	131.55	132.48	133.35	133.63	133.89	134.95	136.19	138.11	139.97	141.77
60.0	116.67	118.01	118.11	118.60	118.91	119.23	120.87	122.75	124.83	126.13
62.5	102.88	104.77	104.45	104.17	104.49	104.97	106.77	108.28	110.04	111.16
65.0	89.35	89.87	90.59	91.29	91.56	92.42	93.03	94.85	96.11	97.55
67.5	76.92	77.45	78.28	78.76	79.12	79.86	80.40	82.04	83.42	84.72
70.0	65.97	66.02	66.56	67.01	67.44	67.96	69.22	70.16	71.45	72.12
72.5	53.90	54.97	55.42	55.90	56.47	57.15	57.75	58.84	59.92	60.70
75.0	44.00	44.81	45.43	45.72	46.36	46.53	47.36	48.24	49.32	50.16
77.5	35.15	35.49	35.99	36.29	36.57	36.87	37.62	38.31	39.23	39.58
80.0	26.75	26.93	26.99	27.58	27.80	28.05	28.44	29.18	29.62	30.32
82.5	18.71	18.87	19.19	19.38	19.44	19.56	19.94	20.40	20.79	21.36
85.0	11.36	11.48	11.45	11.74	11.97	12.00	12.47	12.44	12.76	12.89
87.5	4.63	4.77	4.81	4.82	4.95	4.91	5.32	5.16	5.38	5.30
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	150	155	160	165	170	175	180	185	190	195
0.0	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14
2.5	8533.96	8540.53	8569.65	8600.65	8595.01	8541.48	8503.90	8541.48	8595.01	8600.65
5.0	8035.22	8066.22	8097.21	8111.30	8108.48	8046.49	8023.01	8046.49	8108.48	8111.30
7.5	7372.40	7356.62	7353.52	7346.29	7338.40	7290.87	7259.78	7290.87	7338.40	7346.29
10.0	6498.06	6410.71	6397.56	6391.17	6333.78	6267.29	6204.26	6267.29	6333.78	6391.17
12.5	5436.90	5291.60	5260.89	5218.90	5185.18	5120.75	5066.28	5120.75	5185.18	5218.90
15.0	4421.02	4389.46	4309.81	4252.23	4207.34	4147.60	4127.97	4147.60	4207.34	4252.23
17.5	3571.94	3489.66	3424.95	3369.81	3297.68	3220.57	3213.52	3220.57	3297.68	3369.81
20.0	2766.73	2640.02	2515.67	2430.10	2338.24	2300.58	2242.72	2300.58	2338.24	2430.10
22.5	1996.36	1898.12	1868.15	1757.98	1591.36	1539.70	1508.42	1539.70	1591.36	1757.98
25.0	1358.71	1253.04	1173.77	1125.59	1068.01	1034.48	1017.95	1034.48	1068.01	1125.59
27.5	924.59	856.12	765.44	752.32	741.42	736.23	730.47	736.23	741.42	752.32
30.0	660.08	630.44	597.27	574.11	555.89	540.68	533.28	540.68	555.89	574.11
32.5	493.63	472.82	452.85	431.62	406.64	413.99	406.56	413.99	406.64	431.62
35.0	382.86	366.38	355.49	350.53	348.37	341.81	339.33	341.81	348.37	350.53
37.5	315.44	312.71	311.96	312.64	311.90	310.41	309.27	310.41	311.90	312.64
40.0	282.76	285.54	285.91	287.13	287.56	280.14	283.20	280.14	287.56	287.13
42.5	260.42	261.57	261.63	262.55	261.42	260.09	259.63	260.09	261.42	262.55
45.0	237.54	238.27	238.97	239.39	238.24	237.01	235.99	237.01	238.24	239.39
47.5	215.95	216.79	217.37	217.77	216.59	215.09	206.82	215.09	216.59	217.77
50.0	195.13	195.71	196.69	196.60	196.34	195.12	194.08	195.12	196.34	196.60
52.5	176.47	177.47	178.92	179.10	178.62	177.49	177.14	177.49	178.62	179.10
55.0	158.53	159.60	160.88	161.75	161.31	157.24	159.52	157.24	161.31	161.75
57.5	142.29	142.91	143.83	145.14	144.25	143.27	143.05	143.27	144.25	145.14
60.0	127.00	127.64	128.32	129.02	128.60	127.83	127.47	127.83	128.60	129.02
62.5	112.61	112.86	113.52	114.42	112.47	113.96	113.72	113.96	112.47	114.42
65.0	98.79	99.57	99.63	100.42	100.51	100.09	100.25	100.09	100.51	100.42
67.5	85.50	86.56	86.91	87.51	87.30	86.79	86.64	86.79	87.30	87.51
70.0	73.18	74.03	74.41	73.69	75.00	74.59	74.46	74.59	75.00	73.69
72.5	61.68	62.17	62.54	63.14	63.21	62.91	62.22	62.91	63.21	63.14
75.0	50.52	51.11	51.86	52.06	51.84	51.72	52.02	51.72	51.84	52.06
77.5	40.16	40.69	40.20	41.26	41.44	41.49	41.44	41.49	41.44	41.26
80.0	30.64	31.19	31.44	31.79	31.55	31.95	32.10	31.95	31.55	31.79
82.5	21.56	21.82	22.39	22.43	22.48	22.48	22.37	22.48	22.48	22.43
85.0	13.07	12.76	13.67	13.80	13.96	13.73	13.77	13.73	13.96	13.80
87.5	5.61	5.71	5.77	5.79	5.81	5.82	5.62	5.82	5.81	5.79
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP2-P-D-4FT-V-8TW-MLW-KPL2008-7.900.IES

CANDELA TABULATION - (Cont.)

117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>205</u>	<u>210</u>	<u>215</u>	<u>220</u>	<u>225</u>	<u>230</u>	<u>235</u>	<u>240</u>	<u>245</u>
0.0	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14
2.5	8569.65	8540.53	8533.96	8507.66	8508.60	8516.11	8525.51	8533.96	8523.63	8533.02
5.0	8097.21	8066.22	8035.22	8048.37	8054.95	8069.03	8083.12	8091.58	8081.24	8081.24
7.5	7353.52	7356.62	7372.40	7362.63	7357.93	7384.89	7439.55	7433.64	7446.41	7457.49
10.0	6397.56	6410.71	6498.06	6524.45	6560.52	6618.00	6670.69	6706.57	6733.90	6739.82
12.5	5260.89	5291.60	5436.90	5509.50	5610.66	5747.98	5832.70	5880.32	5946.91	5954.42
15.0	4309.81	4389.46	4421.02	4530.91	4648.12	4815.97	4942.86	5056.32	5112.02	5142.17
17.5	3424.95	3489.66	3571.94	3674.60	3767.49	3940.12	4030.67	4143.75	4183.29	4195.31
20.0	2515.67	2640.02	2766.73	2901.79	2987.36	3079.02	3151.44	3162.43	3186.19	3198.97
22.5	1868.15	1898.12	1996.36	2155.37	2271.09	2319.55	2345.57	2356.19	2397.04	2443.35
25.0	1173.77	1253.04	1358.71	1480.34	1587.79	1761.55	1849.84	1869.66	1873.98	1872.85
27.5	765.44	856.12	924.59	972.96	1047.91	1166.16	1292.96	1323.86	1261.97	1195.56
30.0	597.27	630.44	660.08	676.94	709.85	745.10	774.23	787.74	764.53	743.27
32.5	452.85	472.82	493.63	503.38	509.44	525.59	538.11	547.28	522.80	506.67
35.0	355.49	366.38	382.86	395.35	397.28	395.49	395.65	390.81	390.50	389.75
37.5	311.96	312.71	315.44	322.87	326.89	327.41	324.23	321.79	321.39	318.94
40.0	285.91	285.54	282.76	282.81	282.92	281.92	279.49	277.52	278.46	272.08
42.5	261.63	261.57	260.42	258.27	255.02	252.60	248.37	247.25	245.63	245.10
45.0	238.97	238.27	237.54	236.30	233.66	230.60	227.05	225.29	224.89	224.87
47.5	217.37	216.79	215.95	214.18	212.77	209.85	207.35	205.97	205.50	206.56
50.0	196.69	195.71	195.13	193.96	192.35	191.47	190.21	189.15	188.30	188.28
52.5	178.92	177.47	176.47	176.15	174.92	172.51	170.11	169.24	168.06	167.76
55.0	160.88	159.60	158.53	158.41	156.86	155.00	152.77	151.26	150.14	150.40
57.5	143.83	142.91	142.29	141.77	139.97	138.11	136.19	134.95	133.89	133.63
60.0	128.32	127.64	127.00	126.13	124.83	122.75	120.87	119.23	118.91	118.60
62.5	113.52	112.86	112.61	111.16	110.04	108.28	106.77	104.97	104.49	104.17

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

65.0	99.63	99.57	98.79	97.55	96.11	94.85	93.03	92.42	91.56	91.29
67.5	86.91	86.56	85.50	84.72	83.42	82.04	80.40	79.86	79.12	78.76
70.0	74.41	74.03	73.18	72.12	71.45	70.16	69.22	67.96	67.44	67.01
72.5	62.54	62.17	61.68	60.70	59.92	58.84	57.75	57.15	56.47	55.90
75.0	51.86	51.11	50.52	50.16	49.32	48.24	47.36	46.53	46.36	45.72
77.5	40.20	40.69	40.16	39.58	39.23	38.31	37.62	36.87	36.57	36.29
80.0	31.44	31.19	30.64	30.32	29.62	29.18	28.44	28.05	27.80	27.58
82.5	22.39	21.82	21.56	21.36	20.79	20.40	19.94	19.56	19.44	19.38
85.0	13.67	12.76	13.07	12.89	12.76	12.44	12.47	12.00	11.97	11.74
87.5	5.77	5.71	5.61	5.30	5.38	5.16	5.32	4.91	4.95	4.82
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0.0	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14
2.5	8513.30	8545.23	8533.96	8533.96	8539.59	8533.96	8533.96	8545.23	8513.30	8533.02
5.0	8070.91	8105.66	8108.48	8101.91	8100.03	8101.91	8108.48	8105.66	8070.91	8081.24
7.5	7441.62	7476.47	7473.46	7471.30	7446.88	7471.30	7473.46	7476.47	7441.62	7457.49
10.0	6742.45	6743.76	6755.78	6762.36	6757.66	6762.36	6755.78	6743.76	6742.45	6739.82

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CANDELA TABULATION - (Cont.)

12.5	5964.85	5992.93	5990.87	5985.23	6004.77	5985.23	5990.87	5992.93	5964.85	5954.42
15.0	5131.46	5110.61	5161.33	5125.26	5125.45	5125.26	5161.33	5110.61	5131.46	5142.17
17.5	4126.19	4068.52	4048.98	4036.02	4031.04	4036.02	4048.98	4068.52	4126.19	4195.31
20.0	3223.29	3208.55	3189.58	3173.23	3157.36	3173.23	3189.58	3208.55	3223.29	3198.97
22.5	2480.07	2469.93	2449.26	2424.56	2393.94	2424.56	2449.26	2469.93	2480.07	2443.35
25.0	1851.43	1822.32	1800.06	1777.33	1776.86	1777.33	1800.06	1822.32	1851.43	1872.85
27.5	1135.08	1106.15	1073.18	1044.16	1044.25	1044.16	1073.18	1106.15	1135.08	1195.56
30.0	723.68	708.45	695.14	687.32	676.84	687.32	695.14	708.45	723.68	743.27
32.5	504.62	502.95	498.75	497.69	498.89	497.69	498.75	502.95	504.62	506.67
35.0	392.22	385.17	379.34	375.32	378.63	375.32	379.34	385.17	392.22	389.75
37.5	315.58	307.91	303.67	300.96	299.99	300.96	303.67	307.91	315.58	318.94
40.0	269.00	266.93	265.39	265.76	265.06	265.76	265.39	266.93	269.00	272.08
42.5	245.23	245.04	244.23	244.45	244.96	244.45	244.23	245.04	245.23	245.10
45.0	225.04	224.13	223.30	223.35	223.28	223.35	223.30	224.13	225.04	224.87
47.5	204.73	203.52	202.48	202.74	202.37	202.74	202.48	203.52	204.73	206.56
50.0	188.05	186.82	185.70	185.79	187.15	185.79	185.70	186.82	188.05	188.28
52.5	166.67	166.47	164.68	164.40	165.31	164.40	164.68	166.47	166.67	167.76
55.0	151.68	148.79	147.43	147.55	147.54	147.55	147.43	148.79	151.68	150.40
57.5	133.35	132.48	131.55	131.00	131.46	131.00	131.55	132.48	133.35	133.63
60.0	118.11	118.01	116.67	116.66	116.39	116.66	116.67	118.01	118.11	118.60
62.5	104.45	104.77	102.88	102.11	101.93	102.11	102.88	104.77	104.45	104.17
65.0	90.59	89.87	89.35	88.54	88.74	88.54	89.35	89.87	90.59	91.29
67.5	78.28	77.45	76.92	75.95	76.12	75.95	76.92	77.45	78.28	78.76
70.0	66.56	66.02	65.97	64.42	64.34	64.42	65.97	66.02	66.56	67.01
72.5	55.42	54.97	53.90	53.67	53.42	53.67	53.90	54.97	55.42	55.90
75.0	45.43	44.81	44.00	43.58	43.58	43.58	44.00	44.81	45.43	45.72
77.5	35.99	35.49	35.15	35.66	34.55	35.66	35.15	35.49	35.99	36.29
80.0	26.99	26.93	26.75	26.50	26.45	26.50	26.75	26.93	26.99	27.58
82.5	19.19	18.87	18.71	18.49	18.24	18.49	18.71	18.87	19.19	19.38
85.0	11.45	11.48	11.36	11.21	11.16	11.21	11.36	11.48	11.45	11.74
87.5	4.81	4.77	4.63	4.69	4.58	4.69	4.63	4.77	4.81	4.82
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	<u>300</u>	<u>305</u>	<u>310</u>	<u>315</u>	<u>320</u>	<u>325</u>	<u>330</u>	<u>335</u>	<u>340</u>	<u>345</u>
0.0	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14	8701.14
2.5	8523.63	8533.96	8525.51	8516.11	8508.60	8507.66	8533.96	8540.53	8569.65	8600.65
5.0	8081.24	8091.58	8083.12	8069.03	8054.95	8048.37	8035.22	8066.22	8097.21	8111.30
7.5	7446.41	7433.64	7439.55	7384.89	7357.93	7362.63	7372.40	7356.62	7353.52	7346.29
10.0	6733.90	6706.57	6670.69	6618.00	6560.52	6524.45	6498.06	6410.71	6397.56	6391.17
12.5	5946.91	5880.32	5832.70	5747.98	5610.66	5509.50	5436.90	5291.60	5260.89	5218.90
15.0	5112.02	5056.32	4942.86	4815.97	4648.12	4530.91	4421.02	4389.46	4309.81	4252.23
17.5	4183.29	4143.75	4030.67	3940.12	3767.49	3674.60	3571.94	3489.66	3424.95	3369.81
20.0	3186.19	3162.43	3151.44	3079.02	2987.36	2901.79	2766.73	2640.02	2515.67	2430.10
22.5	2397.04	2356.19	2345.57	2319.55	2271.09	2155.37	1996.36	1898.12	1868.15	1757.98
25.0	1873.98	1869.66	1849.84	1761.55	1587.79	1480.34	1358.71	1253.04	1173.77	1125.59
27.5	1261.97	1323.86	1292.96	1166.16	1047.91	972.96	924.59	856.12	765.44	752.32
30.0	764.53	787.74	774.23	745.10	709.85	676.94	660.08	630.44	597.27	574.11
32.5	522.80	547.28	538.11	525.59	509.44	503.38	493.63	472.82	452.85	431.62
35.0	390.50	390.81	395.65	395.49	397.28	395.35	382.86	366.38	355.49	350.53
37.5	321.39	321.79	324.23	327.41	326.89	322.87	315.44	312.71	311.96	312.64
40.0	278.46	277.52	279.49	281.92	282.92	282.81	282.76	285.54	285.91	287.13
42.5	245.63	247.25	248.37	252.60	255.02	258.27	260.42	261.57	261.63	262.55
45.0	224.89	225.29	227.05	230.60	233.66	236.30	237.54	238.27	238.97	239.39
47.5	205.50	205.97	207.35	209.85	212.77	214.18	215.95	216.79	217.37	217.77
50.0	188.30	189.15	190.21	191.47	192.35	193.96	195.13	195.71	196.69	196.60
52.5	168.06	169.24	170.11	172.51	174.92	176.15	176.47	177.47	178.92	179.10
55.0	150.14	151.26	152.77	155.00	156.86	158.41	158.53	159.60	160.88	161.75
57.5	133.89	134.95	136.19	138.11	139.97	141.77	142.29	142.91	143.83	145.14
60.0	118.91	119.23	120.87	122.75	124.83	126.13	127.00	127.64	128.32	129.02
62.5	104.49	104.97	106.77	108.28	110.04	111.16	112.61	112.86	113.52	114.42
65.0	91.56	92.42	93.03	94.85	96.11	97.55	98.79	99.57	99.63	100.42
67.5	79.12	79.86	80.40	82.04	83.42	84.72	85.50	86.56	86.91	87.51
70.0	67.44	67.96	69.22	70.16	71.45	72.12	73.18	74.03	74.41	73.69
72.5	56.47	57.15	57.75	58.84	59.92	60.70	61.68	62.17	62.54	63.14
75.0	46.36	46.53	47.36	48.24	49.32	50.16	50.52	51.11	51.86	52.06
77.5	36.57	36.87	37.62	38.31	39.23	39.58	40.16	40.69	40.20	41.26
80.0	27.80	28.05	28.44	29.18	29.62	30.32	30.64	31.19	31.44	31.79
82.5	19.44	19.56	19.94	20.40	20.79	21.36	21.56	21.82	22.39	22.43
85.0	11.97	12.00	12.47	12.44	12.76	12.89	13.07	12.76	13.67	13.80
87.5	4.95	4.91	5.32	5.16	5.38	5.30	5.61	5.71	5.77	5.79
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles	Horizontal Angles		
	<u>350</u>	<u>355</u>	<u>360</u>
0.0	8701.14	8701.14	8701.14
2.5	8595.01	8541.48	8503.90
5.0	8108.48	8046.49	8023.01
7.5	7338.40	7290.87	7259.78
10.0	6333.78	6267.29	6204.26
12.5	5185.18	5120.75	5066.28
15.0	4207.34	4147.60	4127.97
17.5	3297.68	3220.57	3213.52
20.0	2338.24	2300.58	2242.72
22.5	1591.36	1539.70	1508.42
25.0	1068.01	1034.48	1017.95
27.5	741.42	736.23	730.47
30.0	555.89	540.68	533.28
32.5	406.64	413.99	406.56
35.0	348.37	341.81	339.33
37.5	311.90	310.41	309.27
40.0	287.56	280.14	283.20
42.5	261.42	260.09	259.63
45.0	238.24	237.01	235.99

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP2-P-D-4FT-V-8TW-MLW-KPL2008-7.900.IES****CANDELA TABULATION - (Cont.)**

47.5	216.59	215.09	206.82
50.0	196.34	195.12	194.08
52.5	178.62	177.49	177.14
55.0	161.31	157.24	159.52
57.5	144.25	143.27	143.05
60.0	128.60	127.83	127.47
62.5	112.47	113.96	113.72
65.0	100.51	100.09	100.25
67.5	87.30	86.79	86.64
70.0	75.00	74.59	74.46
72.5	63.21	62.91	62.22
75.0	51.84	51.72	52.02
77.5	41.44	41.49	41.44
80.0	31.55	31.95	32.10
82.5	22.48	22.48	22.37
85.0	13.96	13.73	13.77
87.5	5.81	5.82	5.62
90.0	0.00	0.00	0.00
92.5	0.00	0.00	0.00
95.0	0.00	0.00	0.00
97.5	0.00	0.00	0.00
100.0	0.00	0.00	0.00
102.5	0.00	0.00	0.00
105.0	0.00	0.00	0.00
107.5	0.00	0.00	0.00
110.0	0.00	0.00	0.00
112.5	0.00	0.00	0.00
115.0	0.00	0.00	0.00
117.5	0.00	0.00	0.00
120.0	0.00	0.00	0.00
122.5	0.00	0.00	0.00
125.0	0.00	0.00	0.00
127.5	0.00	0.00	0.00
130.0	0.00	0.00	0.00
132.5	0.00	0.00	0.00
135.0	0.00	0.00	0.00
137.5	0.00	0.00	0.00
140.0	0.00	0.00	0.00
142.5	0.00	0.00	0.00
145.0	0.00	0.00	0.00
147.5	0.00	0.00	0.00
150.0	0.00	0.00	0.00
152.5	0.00	0.00	0.00
155.0	0.00	0.00	0.00
157.5	0.00	0.00	0.00
160.0	0.00	0.00	0.00
162.5	0.00	0.00	0.00
165.0	0.00	0.00	0.00
167.5	0.00	0.00	0.00
170.0	0.00	0.00	0.00
172.5	0.00	0.00	0.00
175.0	0.00	0.00	0.00
177.5	0.00	0.00	0.00
180.0	0.00	0.00	0.00

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP2-P-D-4FT-V-8TW-MLW-KPL2008-7.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2008.42	N.A.	58.00
0-30	2731.00	N.A.	78.80
0-40	2986.69	N.A.	86.20
0-60	3304.5	N.A.	95.40
0-80	3450.4	N.A.	99.60
0-90	3464.78	N.A.	100.00
10-90	2742.00	N.A.	79.10
20-40	978.27	N.A.	28.20
20-50	1157.14	N.A.	33.40
40-70	412.28	N.A.	11.90
60-80	145.89	N.A.	4.20
70-80	51.43	N.A.	1.50
80-90	14.39	N.A.	0.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3464.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	722.78
10-20	1285.64
20-30	722.58
30-40	255.69
40-50	178.87
50-60	138.95
60-70	94.46
70-80	51.43
80-90	14.39
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT

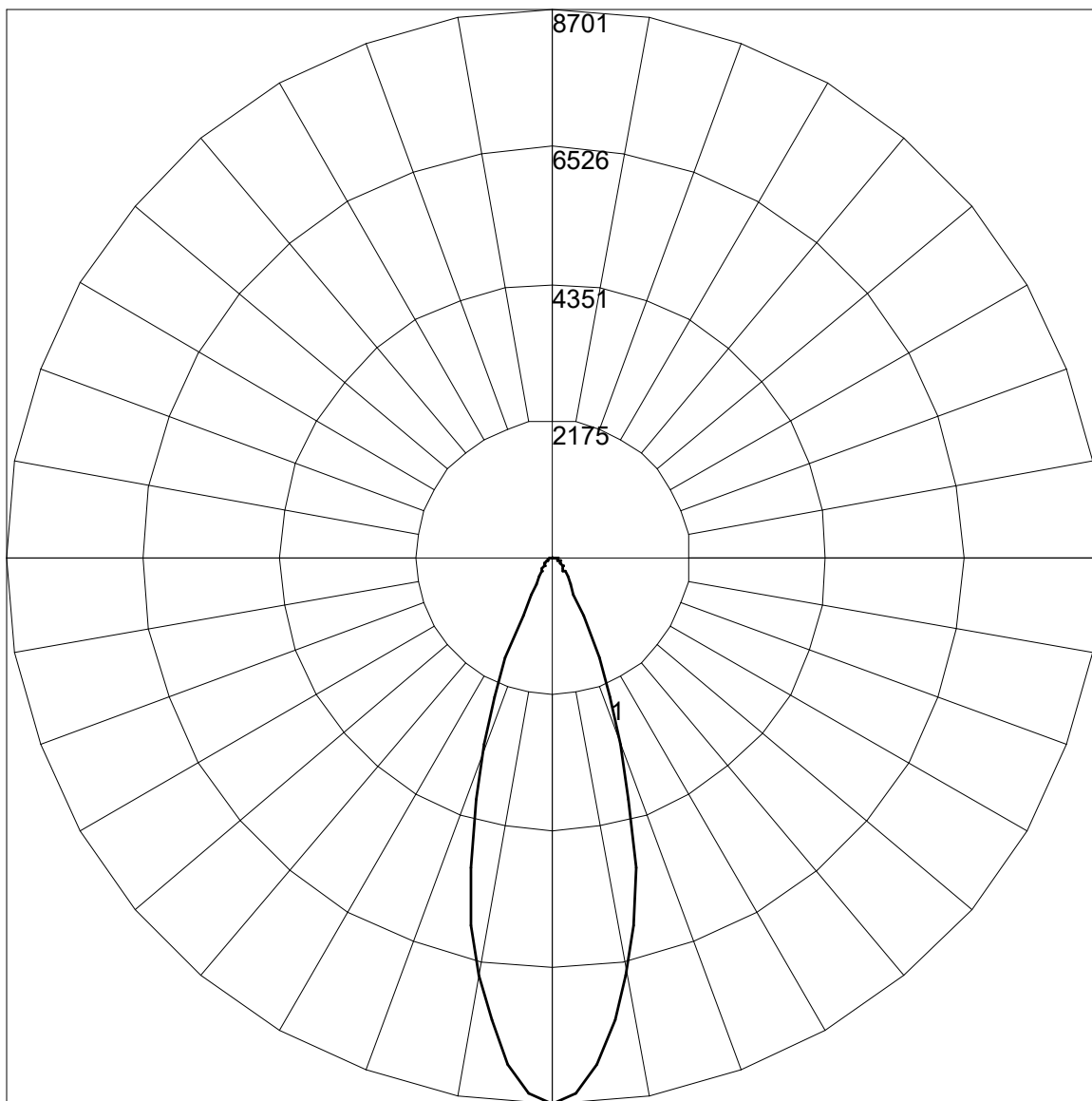
PHOTOMETRIC FILENAME : HP2-P-D-4FT-V-8TW-MLW-KPL2008-7.900.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	78	77
5	94	86	81	77	93	85	80	76	84	79	76	82	78	75	80	77	74	73
6	90	82	76	72	89	81	76	72	80	75	72	78	74	71	77	73	71	69
7	87	78	73	69	85	77	72	69	76	72	68	75	71	68	74	70	67	66
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	65	63
9	80	72	66	63	79	71	66	62	70	66	62	69	65	62	68	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58

POLAR GRAPH



Maximum Candela = 8701.14 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)