

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-835-WSO-MLB-ITL89456-KPL2008-6.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-6-7 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUEDATE]02/07/23
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-2-ID-4ft-V-V-835-WSO-MLB
[INPUT_ELECTRICAL]120.0 VOLTS, 72.4 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 72.4 WATTS
[OTHER]see www.finelite.com for source files ITL89456 and KPL2008-6. For further details on Finelite family correlation files, go
[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf
[ABSOLUTE LUMENS]6478

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6475
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	72.4
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	376	224	233
55	167	88	99
65	81	43	49
75	43	25	24
85	16	7	7

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	7822.88	7822.88	7822.88	7822.88	7822.88
2.5	7625.42	7694.42	7661.78	7652.93	7685.09
5.0	7187.17	7287.37	7239.39	7236.59	7278.93
7.5	6524.59	6648.18	6650.84	6659.79	6689.26
10.0	5672.16	5779.16	5962.71	6009.56	6016.04
12.5	4551.38	4724.30	5156.25	5307.26	5317.28
15.0	3657.74	3842.46	4304.38	4615.21	4551.01
17.5	2751.23	3008.95	3655.13	3738.49	3532.79
20.0	1860.57	2139.70	2712.91	2809.09	2749.92
22.5	1159.20	1493.38	1992.42	2113.26	2084.54
25.0	682.54	823.28	1366.76	1488.35	1319.58
27.5	405.74	530.47	813.80	827.53	736.04
30.0	229.94	307.44	483.85	460.65	405.12
32.5	113.35	175.75	248.44	239.64	225.37
35.0	53.52	76.33	133.64	134.77	112.71
37.5	35.75	37.00	66.70	65.35	41.76
40.0	28.51	25.76	32.55	26.52	17.94
42.5	22.38	20.24	15.75	12.81	14.08
45.0	17.53	15.63	10.42	9.81	10.87
47.5	13.84	11.84	7.72	7.42	8.34
50.0	10.41	9.02	5.78	5.60	6.42
52.5	8.13	6.85	4.37	4.32	4.89
55.0	6.30	5.26	3.32	3.27	3.73
57.5	4.85	4.03	2.54	2.49	2.85
60.0	3.73	3.13	1.98	1.94	2.22
62.5	2.91	2.39	1.53	1.50	1.73
65.0	2.26	1.86	1.20	1.17	1.36
67.5	1.75	1.43	0.94	0.91	1.03
70.0	1.34	1.10	0.74	0.71	0.80
72.5	1.01	0.83	0.56	0.54	0.58
75.0	0.73	0.61	0.42	0.41	0.41
77.5	0.52	0.44	0.32	0.31	0.32
80.0	0.34	0.31	0.22	0.21	0.19
82.5	0.22	0.18	0.13	0.11	0.11
85.0	0.09	0.08	0.04	0.05	0.04
87.5	0.02	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00
92.5	18.00	31.00	31.00	30.00	30.00
95.0	47.00	83.00	83.00	69.00	68.00
97.5	79.00	136.00	167.00	120.00	113.00
100.0	112.00	177.00	332.00	193.00	170.00
102.5	148.00	216.00	459.00	341.00	271.00
105.0	183.00	258.00	532.00	556.00	458.00
107.5	218.00	299.00	577.00	750.00	699.00
110.0	253.00	337.00	617.00	864.00	873.00
112.5	288.00	374.00	664.00	939.00	977.00
115.0	324.00	409.00	720.00	993.00	1048.00
117.5	360.00	444.00	781.00	1044.00	1103.00
120.0	396.00	481.00	831.00	1098.00	1158.00
122.5	429.00	512.00	867.00	1174.00	1216.00
125.0	460.00	542.00	887.00	1257.00	1299.00
127.5	489.00	570.00	899.00	1313.00	1391.00
130.0	513.00	594.00	906.00	1336.00	1457.00
132.5	537.00	616.00	908.00	1327.00	1478.00

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-835-WSO-MLB-ITL89456-KPL2008-6.IES****CANDELA TABULATION - (Cont.)**

135.0	558.00	634.00	907.00	1299.00	1457.00
137.5	577.00	651.00	904.00	1261.00	1413.00
140.0	596.00	666.00	899.00	1219.00	1357.00
142.5	614.00	680.00	892.00	1172.00	1297.00
145.0	633.00	693.00	885.00	1127.00	1236.00
147.5	649.00	703.00	877.00	1081.00	1174.00
150.0	665.00	714.00	867.00	1040.00	1116.00
152.5	680.00	722.00	855.00	1001.00	1062.00
155.0	694.00	728.00	843.00	963.00	1012.00
157.5	707.00	736.00	832.00	928.00	967.00
160.0	718.00	741.00	819.00	894.00	925.00
162.5	728.00	745.00	806.00	865.00	886.00
165.0	736.00	749.00	793.00	837.00	853.00
167.5	743.00	752.00	783.00	813.00	824.00
170.0	749.00	755.00	776.00	794.00	801.00
172.5	752.00	757.00	768.00	778.00	784.00
175.0	756.00	758.00	763.00	768.00	770.00
177.5	758.00	758.00	760.00	760.00	761.00
180.0	759.00	759.00	759.00	759.00	759.00

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-835-WSO-MLB-ITL89456-KPL2008-6.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1792.87	N.A.	27.70
0-30	2354.14	N.A.	36.40
0-40	2440.51	N.A.	37.70
0-60	2455.1	N.A.	37.90
0-80	2457.22	N.A.	37.90
0-90	2457.31	N.A.	38.00
10-90	1808.53	N.A.	27.90
20-40	647.64	N.A.	10.00
20-50	658.27	N.A.	10.20
40-70	16.15	N.A.	0.20
60-80	2.12	N.A.	0.00
70-80	0.56	N.A.	0.00
80-90	0.09	N.A.	0.00
90-110	525.79	N.A.	8.10
90-120	1219.49	N.A.	18.80
90-130	2012.46	N.A.	31.10
90-150	3325.54	N.A.	51.40
90-180	4017.8	N.A.	62.00
110-180	3492.02	N.A.	53.90
0-180	6475.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	648.78
10-20	1144.1
20-30	561.26
30-40	86.37
40-50	10.64
50-60	3.95
60-70	1.56
70-80	0.56
80-90	0.09
90-100	91.71
100-110	434.08
110-120	693.70
120-130	792.97
130-140	741.14
140-150	571.94
150-160	393.14
160-170	225.92
170-180	73.20

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

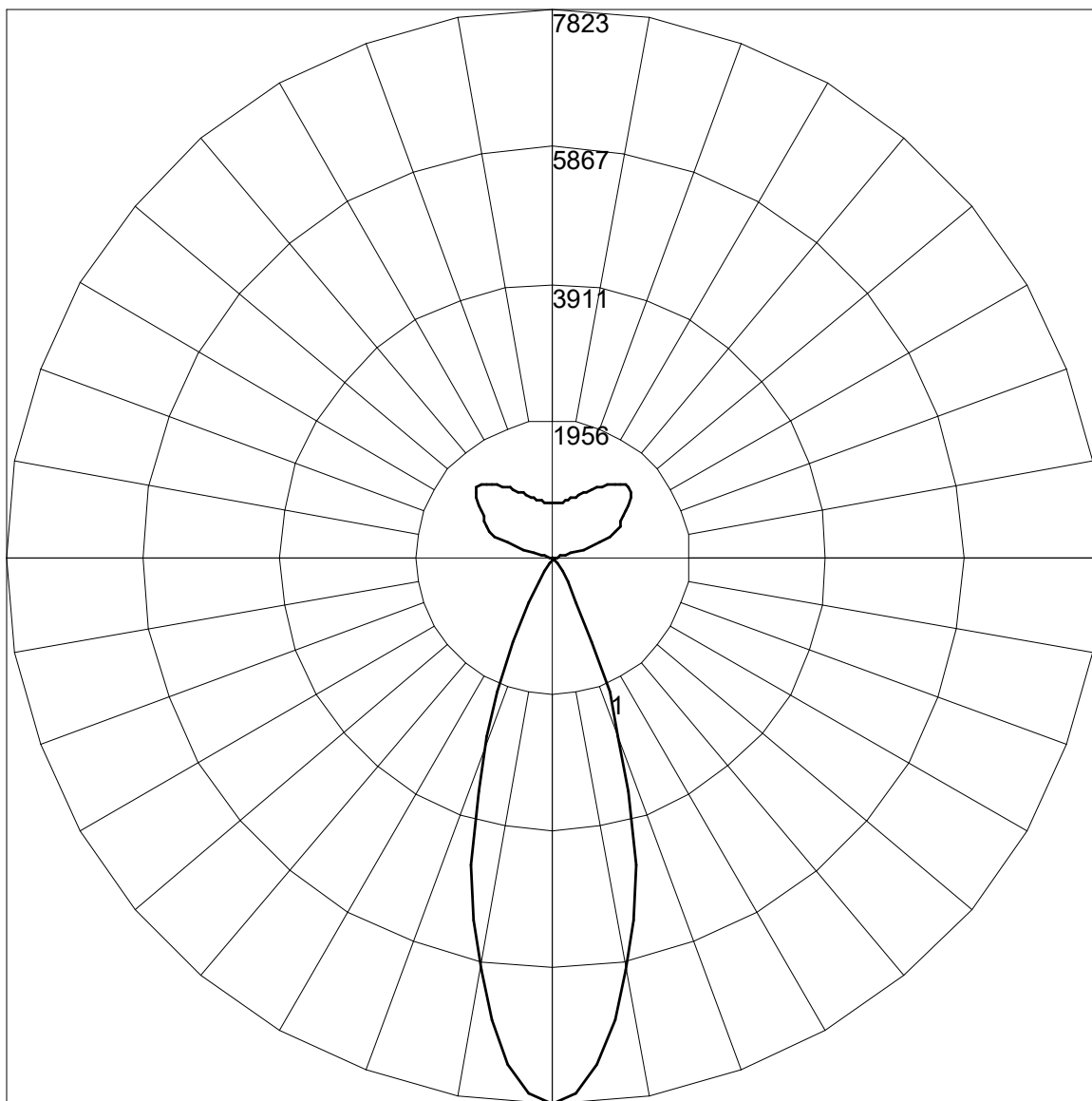
Effective Floor Cavity Reflectance 0.20

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	97	94	91	88	88	86	83	81	70	69	67	56	55	55	43	43	42	36
2	91	85	81	77	83	78	74	71	65	62	60	53	51	50	42	41	40	35
3	85	78	72	68	78	72	67	63	60	57	55	50	48	46	40	39	38	34
4	80	72	66	61	73	66	61	57	56	53	50	47	45	43	38	37	36	32
5	75	66	60	55	69	61	56	52	53	49	46	44	42	40	37	35	34	31
6	71	61	55	51	65	57	52	48	49	46	43	42	40	38	35	34	33	30
7	67	57	51	47	62	54	48	44	47	43	40	40	38	36	34	33	32	29
8	63	54	48	43	59	50	45	41	44	40	38	38	36	34	33	31	30	28
9	60	50	45	41	56	48	42	39	42	38	36	37	34	32	32	30	29	27
10	57	48	42	38	53	45	40	37	40	36	34	35	33	31	31	29	28	26

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POLAR GRAPH



Maximum Candela = 7822.88 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (90 - 270)