

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-B-V-8TW-WSO-MLB-ITL89456-KPL2008-6.912.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-6.912 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUEDATE]02/07/23
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-2-ID-4ft-B-V-8TW-WSO-MLB
[INPUT_ELECTRICAL]120.0 VOLTS, 59.8 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 60.7 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]4528

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4525
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	59.8
Ballast Factor	1.00
CIE Type	General Diffuse
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	7822.880	7822.880	7822.880	7822.880	7822.880
2.5	7625.420	7694.420	7661.780	7652.930	7685.090
5.0	7187.170	7287.370	7239.390	7236.590	7278.930
7.5	6524.590	6648.180	6650.840	6659.790	6689.260
10.0	5672.160	5779.160	5962.710	6009.560	6016.040
12.5	4551.380	4724.300	5156.250	5307.260	5317.280
15.0	3657.740	3842.460	4304.380	4615.210	4551.010
17.5	2751.230	3008.950	3655.130	3738.490	3532.790
20.0	1860.570	2139.700	2712.910	2809.090	2749.920
22.5	1159.200	1493.380	1992.420	2113.260	2084.540
25.0	682.540	823.280	1366.760	1488.350	1319.580
27.5	405.740	530.470	813.800	827.530	736.040
30.0	229.940	307.440	483.850	460.650	405.120
32.5	113.350	175.750	248.440	239.640	225.370
35.0	53.520	76.330	133.640	134.770	112.710
37.5	35.750	37.000	66.700	65.350	41.760
40.0	28.510	25.760	32.550	26.520	17.940
42.5	22.380	20.240	15.750	12.810	14.080
45.0	17.530	15.630	10.420	9.810	10.870
47.5	13.840	11.840	7.720	7.420	8.340
50.0	10.410	9.020	5.780	5.600	6.420
52.5	8.130	6.850	4.370	4.320	4.890
55.0	6.300	5.260	3.320	3.270	3.730
57.5	4.850	4.030	2.540	2.490	2.850
60.0	3.730	3.130	1.980	1.940	2.220
62.5	2.910	2.390	1.530	1.500	1.730
65.0	2.260	1.860	1.200	1.170	1.360
67.5	1.750	1.430	0.940	0.910	1.030
70.0	1.340	1.100	0.740	0.710	0.800
72.5	1.010	0.830	0.560	0.540	0.580
75.0	0.730	0.610	0.420	0.410	0.410
77.5	0.520	0.440	0.320	0.310	0.320
80.0	0.340	0.310	0.220	0.210	0.190
82.5	0.220	0.180	0.130	0.110	0.110
85.0	0.090	0.080	0.040	0.050	0.040
87.5	0.020	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	9.263	15.953	15.953	15.439	15.439
95.0	24.187	42.714	42.714	35.509	34.994
97.5	40.655	69.988	85.942	61.754	58.152
100.0	57.637	91.088	170.854	99.322	87.485
102.5	76.164	111.158	236.210	175.485	139.462
105.0	94.175	132.772	273.778	286.129	235.696
107.5	112.187	153.871	296.936	385.965	359.719
110.0	130.199	173.427	317.521	444.632	449.263
112.5	148.210	192.468	341.708	483.228	502.784
115.0	166.737	210.480	370.526	511.017	539.322
117.5	185.263	228.491	401.918	537.263	567.626
120.0	203.790	247.532	427.649	565.053	595.930
122.5	220.772	263.485	446.175	604.164	625.778
125.0	236.725	278.924	456.468	646.877	668.491
127.5	251.649	293.333	462.643	675.696	715.836
130.0	264.000	305.684	466.246	687.532	749.801
132.5	276.351	317.006	467.275	682.901	760.608

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-V-8TW-WSO-MLB-ITL89456-KPL2008-6.912.IES****CANDELA TABULATION - (Cont.)**

135.0	287.158	326.269	466.760	668.491	749.801
137.5	296.936	335.017	465.216	648.936	727.158
140.0	306.714	342.737	462.643	627.322	698.339
142.5	315.977	349.942	459.041	603.135	667.462
145.0	325.754	356.632	455.439	579.977	636.070
147.5	333.988	361.778	451.322	556.304	604.164
150.0	342.222	367.439	446.175	535.205	574.316
152.5	349.942	371.556	440.000	515.135	546.526
155.0	357.146	374.643	433.825	495.579	520.795
157.5	363.836	378.760	428.164	477.567	497.637
160.0	369.497	381.333	421.474	460.070	476.023
162.5	374.643	383.392	414.784	445.146	455.953
165.0	378.760	385.450	408.094	430.737	438.971
167.5	382.363	386.994	402.947	418.386	424.047
170.0	385.450	388.538	399.345	408.608	412.211
172.5	386.994	389.567	395.228	400.374	403.462
175.0	389.053	390.082	392.655	395.228	396.257
177.5	390.082	390.082	391.111	391.111	391.626
180.0	390.596	390.596	390.596	390.596	390.596

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-V-8TW-WSO-MLB-ITL89456-KPL2008-6.912.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1792.87	N.A.	39.60
0-30	2354.14	N.A.	52.00
0-40	2440.51	N.A.	53.90
0-60	2455.1	N.A.	54.30
0-80	2457.22	N.A.	54.30
0-90	2457.31	N.A.	54.30
10-90	1808.53	N.A.	40.00
20-40	647.64	N.A.	14.30
20-50	658.27	N.A.	14.50
40-70	16.15	N.A.	0.40
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	270.58	N.A.	6.00
90-120	627.57	N.A.	13.90
90-130	1035.65	N.A.	22.90
90-150	1711.39	N.A.	37.80
90-180	2067.64	N.A.	45.70
110-180	1797.06	N.A.	39.70
0-180	4524.95	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	47.20
100-110	223.38
110-120	356.99
120-130	408.08
130-140	381.40
140-150	294.33
150-160	202.32
160-170	116.27
170-180	37.67

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

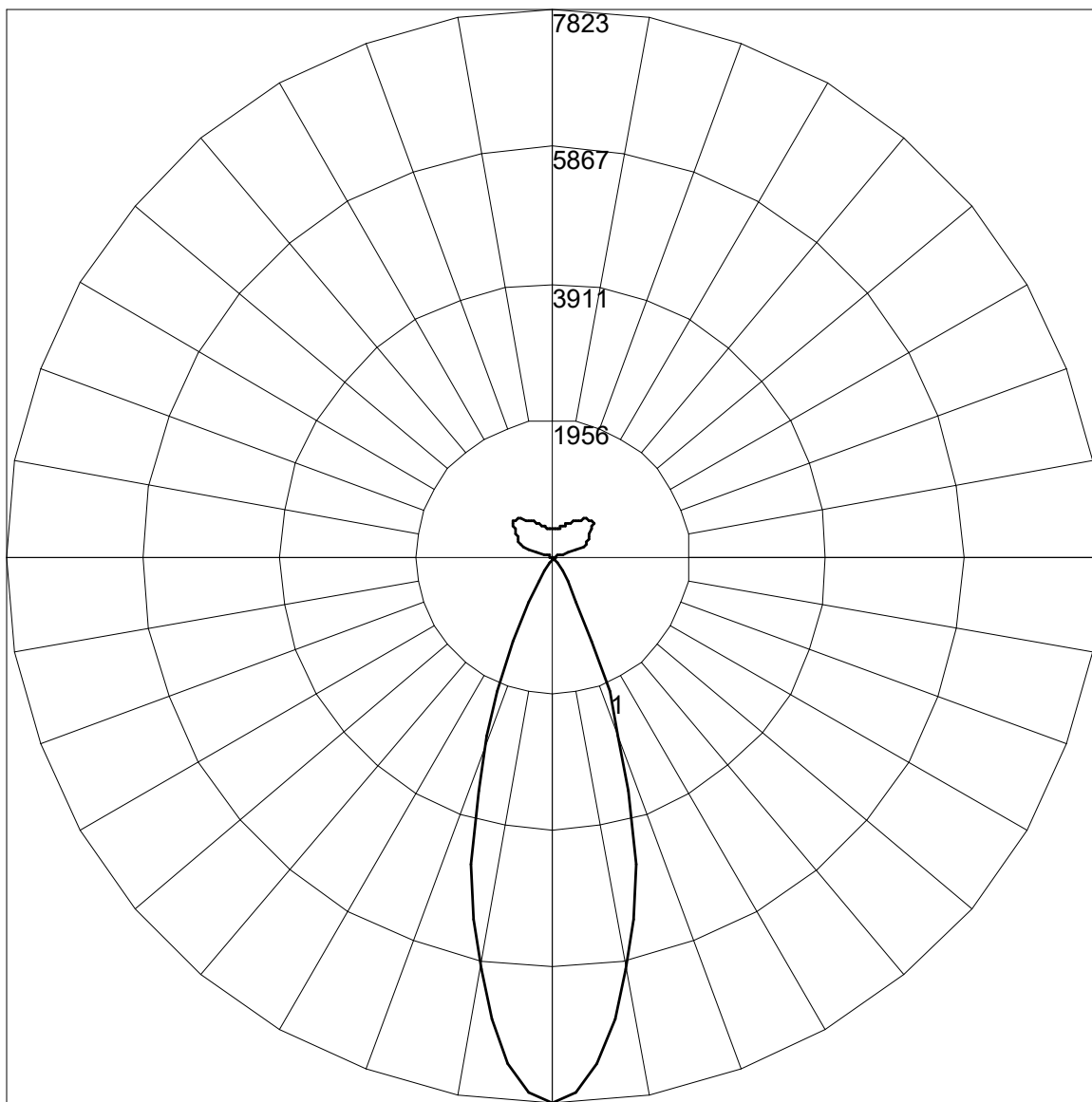
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	102	99	96	94	95	92	90	88	80	78	77	69	68	67	58	58	57	52
2	96	91	87	83	90	85	82	79	75	72	70	65	63	62	56	55	54	50
3	91	84	79	75	85	79	75	72	70	67	65	62	60	58	54	53	52	48
4	86	78	73	69	81	74	69	66	66	63	60	59	57	55	52	51	49	46
5	82	73	68	63	77	70	65	61	63	59	56	56	54	52	50	49	47	45
6	78	69	63	59	73	66	61	57	60	56	53	54	51	49	49	47	45	43
7	74	65	59	55	70	62	57	54	57	53	50	52	49	47	47	45	44	42
8	70	62	56	52	67	59	54	51	54	50	48	50	47	45	45	44	42	40
9	67	58	53	49	64	56	51	48	52	48	45	48	45	43	44	42	41	39
10	65	56	50	47	61	54	49	46	50	46	43	46	43	41	43	41	39	38

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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)