

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-H-H-835-WSO-MLB-ITL89456-KPL2008-6.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-6.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUEDATE]02/07/23
[MANUFAC]FINELITE, INC.
[LUMCAT]HP2ID-4ft-H-H-835-WSO-MLB
[INPUT_ELECTRICAL]120.0 VOLTS, 55.6 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 55.6 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]5038

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5036
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	55.6
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	293	174	182
55	130	68	77
65	63	34	38
75	33	19	19
85	12	5	5

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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	6084.714	6084.714	6084.714	6084.714	6084.714
2.5	5931.128	5984.797	5959.409	5952.525	5977.540
5.0	5590.253	5668.189	5630.870	5628.692	5661.625
7.5	5074.891	5171.021	5173.090	5180.051	5202.973
10.0	4411.863	4495.088	4637.855	4674.296	4679.336
12.5	3540.109	3674.608	4010.583	4128.040	4135.833
15.0	2845.027	2988.704	3347.990	3589.757	3539.821
17.5	2139.934	2340.391	2842.997	2907.835	2747.839
20.0	1447.170	1664.280	2110.128	2184.938	2138.915
22.5	901.637	1161.566	1549.724	1643.715	1621.376
25.0	530.886	640.355	1063.080	1157.654	1026.383
27.5	315.589	412.605	632.982	643.661	572.499
30.0	178.850	239.130	376.343	358.298	315.106
32.5	88.165	136.700	193.239	186.394	175.295
35.0	41.628	59.370	103.947	104.825	87.667
37.5	27.807	28.779	51.880	50.830	32.481
40.0	22.175	20.036	25.318	20.628	13.954
42.5	17.407	15.743	12.251	9.964	10.952
45.0	13.635	12.157	8.105	7.630	8.455
47.5	10.765	9.209	6.005	5.771	6.487
50.0	8.097	7.016	4.496	4.356	4.994
52.5	6.324	5.328	3.399	3.360	3.803
55.0	4.900	4.091	2.582	2.543	2.901
57.5	3.772	3.135	1.976	1.937	2.217
60.0	2.901	2.435	1.540	1.509	1.727
62.5	2.263	1.859	1.190	1.167	1.346
65.0	1.758	1.447	0.933	0.910	1.058
67.5	1.361	1.112	0.731	0.708	0.801
70.0	1.042	0.856	0.576	0.552	0.622
72.5	0.786	0.646	0.436	0.420	0.451
75.0	0.568	0.474	0.327	0.319	0.319
77.5	0.404	0.342	0.249	0.241	0.249
80.0	0.264	0.241	0.171	0.163	0.148
82.5	0.171	0.140	0.101	0.086	0.086
85.0	0.070	0.062	0.031	0.039	0.031
87.5	0.016	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	14.000	24.111	24.111	23.333	23.333
95.0	36.555	64.554	64.554	53.666	52.888
97.5	61.443	105.776	129.886	93.331	87.887
100.0	87.109	137.664	258.217	150.108	132.220
102.5	115.109	167.997	356.993	265.217	210.774
105.0	142.331	200.663	413.770	432.436	356.215
107.5	169.552	232.551	448.769	583.322	543.656
110.0	196.774	262.106	479.879	671.987	678.987
112.5	223.996	290.883	516.434	730.319	759.874
115.0	251.995	318.105	559.989	772.318	815.095
117.5	279.995	345.327	607.433	811.984	857.872
120.0	307.994	374.104	646.321	853.983	900.649
122.5	333.660	398.214	674.320	913.093	945.759
125.0	357.771	421.547	689.875	977.648	1010.314
127.5	380.326	443.325	699.209	1021.202	1081.868
130.0	398.992	461.991	704.653	1039.091	1133.200
132.5	417.659	479.102	706.208	1032.091	1149.533

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-WSO-MLB-ITL89456-KPL2008-6.003.IES****CANDELA TABULATION - (Cont.)**

135.0	433.991	493.102	705.431	1010.314	1133.200
137.5	448.769	506.323	703.097	980.759	1098.979
140.0	463.547	517.990	699.209	948.093	1055.424
142.5	477.546	528.878	693.764	911.538	1008.758
145.0	492.324	538.990	688.320	876.539	961.315
147.5	504.768	546.767	682.098	840.761	913.093
150.0	517.212	555.323	674.320	808.873	867.983
152.5	528.878	561.545	664.987	778.540	825.984
155.0	539.767	566.211	655.654	748.985	787.096
157.5	549.878	572.433	647.099	721.764	752.096
160.0	558.433	576.322	636.987	695.320	719.430
162.5	566.211	579.433	626.877	672.765	689.098
165.0	572.433	582.544	616.766	650.987	663.432
167.5	577.878	584.878	608.988	632.321	640.876
170.0	582.544	587.211	603.544	617.544	622.988
172.5	584.878	588.766	597.322	605.099	609.766
175.0	587.989	589.544	593.433	597.322	598.877
177.5	589.544	589.544	591.099	591.099	591.877
180.0	590.322	590.322	590.322	590.322	590.322

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-WSO-MLB-ITL89456-KPL2008-6.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1394.52	N.A.	27.70
0-30	1831.07	N.A.	36.40
0-40	1898.25	N.A.	37.70
0-60	1909.6	N.A.	37.90
0-80	1911.25	N.A.	38.00
0-90	1911.32	N.A.	38.00
10-90	1406.69	N.A.	27.90
20-40	503.74	N.A.	10.00
20-50	512.01	N.A.	10.20
40-70	12.56	N.A.	0.20
60-80	1.65	N.A.	0.00
70-80	0.44	N.A.	0.00
80-90	0.07	N.A.	0.00
90-110	408.94	N.A.	8.10
90-120	948.47	N.A.	18.80
90-130	1565.22	N.A.	31.10
90-150	2586.48	N.A.	51.40
90-180	3124.9	N.A.	62.00
110-180	2715.96	N.A.	53.90
0-180	5036.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	504.63
10-20	889.89
20-30	436.56
30-40	67.18
40-50	8.27
50-60	3.08
60-70	1.21
70-80	0.44
80-90	0.07
90-100	71.33
100-110	337.61
110-120	539.53
120-130	616.75
130-140	576.43
140-150	444.83
150-160	305.77
160-170	175.72
170-180	56.93

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

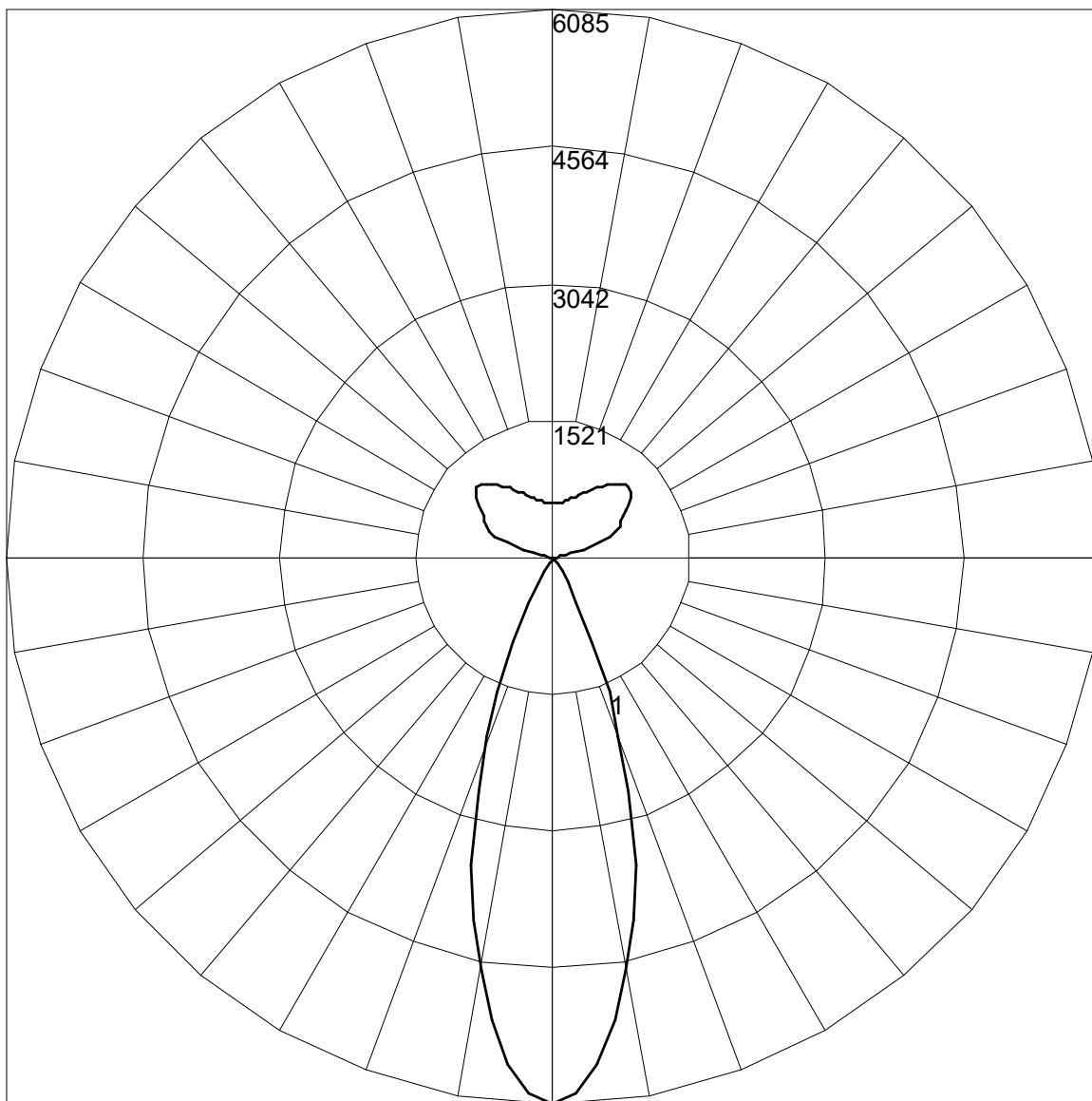
Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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 = 6084.714 Located At Horizontal Angle = 0, Vertical Angle = 0

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