

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-S-S-835-WSO-MLB-ITL89456-KPL2008-6.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-6.001 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUEDATE]02/07/23
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-2-ID-4ft-S-S-835-WSO-MLB
[INPUT_ELECTRICAL]120.0 VOLTS, 28.4 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 30.8 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]2651

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2651
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	28.4
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	154	92	96
55	68	36	40
65	33	18	20
75	18	10	10
85	6	3	3

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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	3202.792	3202.792	3202.792	3202.792	3202.792
2.5	3121.949	3150.199	3136.835	3133.212	3146.379
5.0	2942.524	2983.547	2963.903	2962.757	2980.092
7.5	2671.254	2721.854	2722.943	2726.607	2738.673
10.0	2322.258	2366.066	2441.213	2460.394	2463.047
12.5	1863.396	1934.192	2111.038	2172.863	2176.966
15.0	1497.528	1573.155	1762.271	1889.529	1863.244
17.5	1126.390	1231.904	1496.459	1530.588	1446.372
20.0	761.742	876.022	1110.702	1150.079	1125.854
22.5	474.592	611.410	815.723	865.197	853.439
25.0	279.441	337.062	559.570	609.350	540.254
27.5	166.115	217.182	333.181	338.802	301.345
30.0	94.141	125.870	198.095	188.596	165.862
32.5	46.407	71.954	101.715	98.112	92.269
35.0	21.912	31.251	54.714	55.177	46.145
37.5	14.637	15.148	27.308	26.755	17.097
40.0	11.672	10.546	13.326	10.858	7.345
42.5	9.163	8.287	6.448	5.245	5.765
45.0	7.177	6.399	4.266	4.016	4.450
47.5	5.666	4.847	3.161	3.038	3.415
50.0	4.262	3.693	2.366	2.293	2.628
52.5	3.329	2.804	1.789	1.769	2.002
55.0	2.579	2.154	1.359	1.339	1.527
57.5	1.986	1.650	1.040	1.019	1.167
60.0	1.527	1.281	0.811	0.794	0.909
62.5	1.191	0.978	0.626	0.614	0.708
65.0	0.925	0.762	0.491	0.479	0.557
67.5	0.716	0.585	0.385	0.373	0.422
70.0	0.549	0.450	0.303	0.291	0.328
72.5	0.414	0.340	0.229	0.221	0.237
75.0	0.299	0.250	0.172	0.168	0.168
77.5	0.213	0.180	0.131	0.127	0.131
80.0	0.139	0.127	0.090	0.086	0.078
82.5	0.090	0.074	0.053	0.045	0.045
85.0	0.037	0.033	0.016	0.020	0.016
87.5	0.008	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	7.369	12.692	12.692	12.282	12.282
95.0	19.242	33.981	33.981	28.250	27.840
97.5	32.344	55.680	68.372	49.130	46.264
100.0	45.854	72.466	135.925	79.017	69.600
102.5	60.593	88.433	187.921	139.610	110.951
105.0	74.923	105.629	217.808	227.634	187.511
107.5	89.252	122.415	236.232	307.060	286.180
110.0	103.582	137.972	252.608	353.733	357.418
112.5	117.911	153.121	271.850	384.439	399.997
115.0	132.650	167.450	294.778	406.548	429.065
117.5	147.389	181.780	319.752	427.428	451.583
120.0	162.128	196.928	340.223	449.536	474.101
122.5	175.638	209.620	354.961	480.651	497.847
125.0	188.330	221.902	363.150	514.633	531.828
127.5	200.203	233.366	368.063	537.560	569.494
130.0	210.029	243.192	370.929	546.976	596.515
132.5	219.855	252.199	371.747	543.292	605.113

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-S-835-WSO-MLB-ITL89456-KPL2008-6.001.IES****CANDELA TABULATION - (Cont.)**

135.0	228.453	259.568	371.338	531.828	596.515
137.5	236.232	266.528	370.110	516.270	578.501
140.0	244.010	272.669	368.063	499.075	555.574
142.5	251.380	278.401	365.197	479.833	531.009
145.0	259.159	283.723	362.331	461.409	506.035
147.5	265.709	287.818	359.056	442.576	480.651
150.0	272.260	292.321	354.961	425.790	456.905
152.5	278.401	295.596	350.048	409.823	434.797
155.0	284.133	298.053	345.135	394.265	414.326
157.5	289.455	301.328	340.632	379.936	395.903
160.0	293.959	303.375	335.310	366.016	378.707
162.5	298.053	305.013	329.987	354.143	362.740
165.0	301.328	306.651	324.665	342.679	349.230
167.5	304.194	307.879	320.571	332.853	337.357
170.0	306.651	309.107	317.705	325.074	327.940
172.5	307.879	309.926	314.429	318.524	320.980
175.0	309.517	310.335	312.382	314.429	315.248
177.5	310.335	310.335	311.154	311.154	311.564
180.0	310.745	310.745	310.745	310.745	310.745

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-S-835-WSO-MLB-ITL89456-KPL2008-6.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	734.03	N.A.	27.70
0-30	963.81	N.A.	36.40
0-40	999.18	N.A.	37.70
0-60	1005.15	N.A.	37.90
0-80	1006.02	N.A.	37.90
0-90	1006.06	N.A.	38.00
10-90	740.44	N.A.	27.90
20-40	265.15	N.A.	10.00
20-50	269.50	N.A.	10.20
40-70	6.61	N.A.	0.20
60-80	0.87	N.A.	0.00
70-80	0.23	N.A.	0.00
80-90	0.04	N.A.	0.00
90-110	215.26	N.A.	8.10
90-120	499.27	N.A.	18.80
90-130	823.93	N.A.	31.10
90-150	1361.52	N.A.	51.40
90-180	1644.94	N.A.	62.00
110-180	1429.68	N.A.	53.90
0-180	2651.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	265.62
10-20	468.41
20-30	229.79
30-40	35.36
40-50	4.35
50-60	1.62
60-70	0.64
70-80	0.23
80-90	0.04
90-100	37.55
100-110	177.72
110-120	284.01
120-130	324.65
130-140	303.43
140-150	234.16
150-160	160.96
160-170	92.50
170-180	29.97

IES INDOOR REPORT

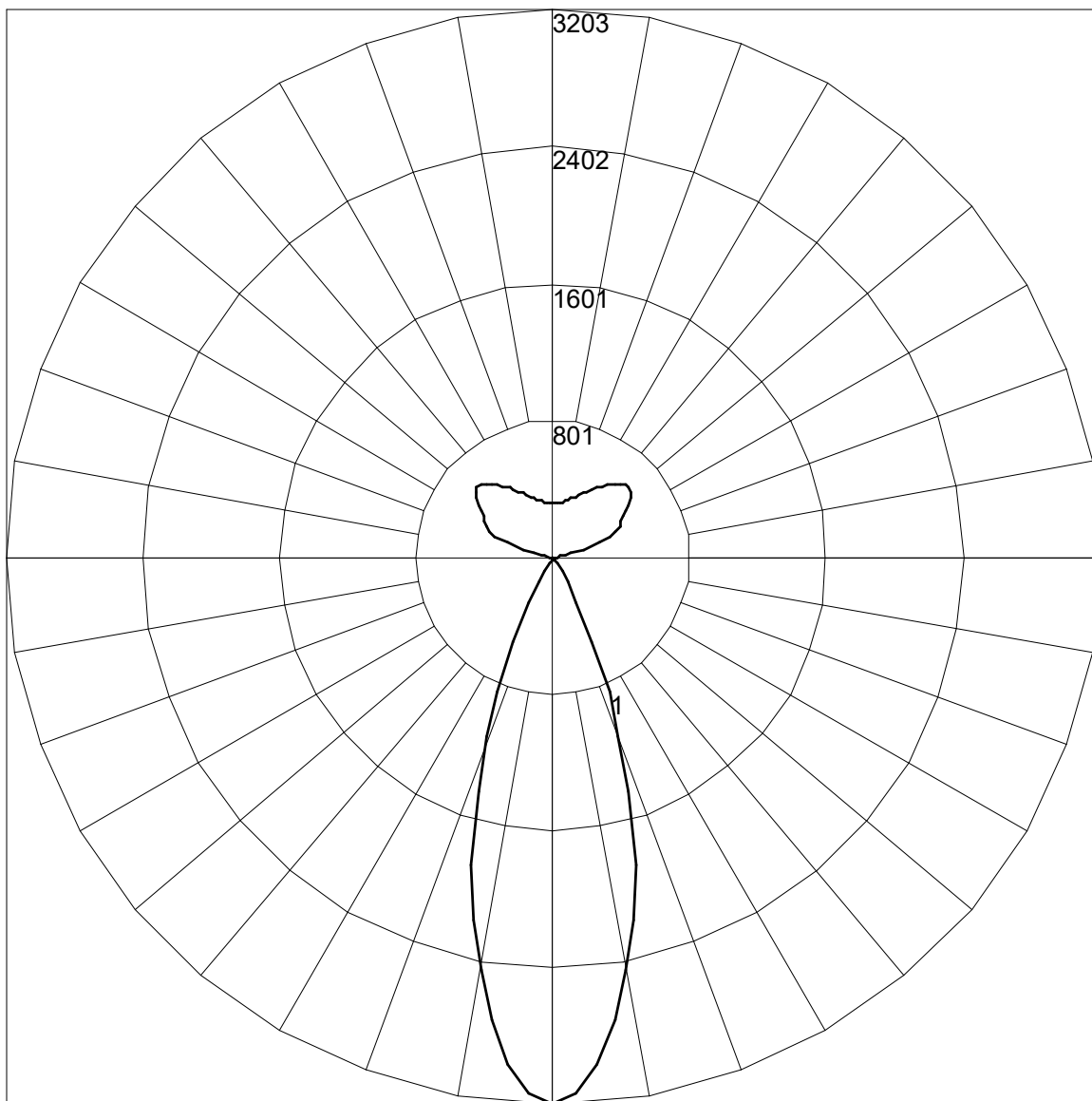
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	134	134	134	134	122	122	122	122	99	99	99	78	78	78	58	58	58	49
1	125	121	117	114	114	111	107	105	91	89	87	73	71	70	56	55	55	47
2	117	110	104	99	107	101	96	92	84	80	78	68	66	64	54	52	52	45
3	110	100	93	87	100	93	87	82	78	74	70	64	62	59	51	50	49	43
4	103	92	84	78	94	85	79	74	72	68	64	61	58	55	49	48	47	42
5	97	85	77	71	89	79	72	67	68	63	59	57	54	52	47	46	44	40
6	91	79	71	65	84	74	67	62	64	59	55	54	51	49	46	44	42	39
7	86	74	66	60	79	69	62	57	60	55	52	52	49	46	44	42	41	37
8	82	69	61	56	75	65	58	53	57	52	49	50	46	44	42	40	39	36
9	77	65	57	52	72	61	55	50	54	49	46	47	44	42	41	39	38	35
10	74	61	54	49	69	58	52	47	52	47	43	45	42	40	40	38	36	34

POLAR GRAPH



Maximum Candela = 3202.792 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)