

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-V-835-WSO-MLB-ITL89456-KPL2008-6.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-6.015 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUE DATE]02/07/23
[MANUFACTURER]FINELITE, INC.
[LUMCAT]HP-2-ID-4ft-S-V-835-WSO-MLB
[INPUT_ELECTRICAL]120.0 VOLTS, 50.4 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 51.6 WATTS
[OTHER]see www.finelite.com for source files ITL89456 and KPL2008-6. For further details on Finelite family correlation files, go to http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf
[ABSOLUTE LUMENS]4105

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4102
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	50.4
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-V-835-WSO-MLB-ITL89456-KPL2008-6.015.IES****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	7.368	12.690	12.690	12.281	12.281
95.0	19.240	33.977	33.977	28.246	27.836
97.5	32.339	55.673	68.363	49.123	46.257
100.0	45.848	72.456	135.906	79.006	69.591
102.5	60.585	88.421	187.895	139.591	110.936
105.0	74.912	105.614	217.778	227.602	187.485
107.5	89.240	122.398	236.199	307.017	286.140
110.0	103.567	137.953	252.573	353.684	357.368
112.5	117.895	153.099	271.813	384.386	399.941
115.0	132.632	167.427	294.737	406.491	429.006
117.5	147.368	181.754	319.708	427.368	451.520
120.0	162.105	196.901	340.175	449.474	474.035
122.5	175.614	209.591	354.912	480.585	497.778
125.0	188.304	221.871	363.099	514.561	531.754
127.5	200.175	233.333	368.012	537.485	569.415
130.0	210.000	243.158	370.877	546.901	596.433
132.5	219.825	252.164	371.696	543.216	605.029

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-V-835-WSO-MLB-ITL89456-KPL2008-6.015.IES****CANDELA TABULATION - (Cont.)**

135.0	228.421	259.532	371.286	531.754	596.433
137.5	236.199	266.491	370.059	516.199	578.421
140.0	243.977	272.632	368.012	499.006	555.497
142.5	251.345	278.362	365.146	479.766	530.936
145.0	259.123	283.684	362.281	461.345	505.965
147.5	265.672	287.778	359.006	442.515	480.585
150.0	272.222	292.281	354.912	425.731	456.842
152.5	278.362	295.556	350.000	409.766	434.737
155.0	284.094	298.012	345.088	394.211	414.269
157.5	289.415	301.286	340.585	379.883	395.848
160.0	293.918	303.333	335.263	365.965	378.655
162.5	298.012	304.971	329.941	354.094	362.690
165.0	301.286	306.608	324.620	342.632	349.181
167.5	304.152	307.836	320.526	332.807	337.310
170.0	306.608	309.064	317.661	325.029	327.895
172.5	307.836	309.883	314.386	318.479	320.936
175.0	309.474	310.292	312.339	314.386	315.205
177.5	310.292	310.292	311.111	311.111	311.520
180.0	310.702	310.702	310.702	310.702	310.702

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Zone	Lumens	%Lamp	%Fixt
0-20	1792.87	N.A.	43.70
0-30	2354.14	N.A.	57.40
0-40	2440.51	N.A.	59.50
0-60	2455.1	N.A.	59.90
0-80	2457.22	N.A.	59.90
0-90	2457.31	N.A.	59.90
10-90	1808.53	N.A.	44.10
20-40	647.64	N.A.	15.80
20-50	658.27	N.A.	16.00
40-70	16.15	N.A.	0.40
60-80	2.12	N.A.	0.10
70-80	0.56	N.A.	0.00
80-90	0.09	N.A.	0.00
90-110	215.23	N.A.	5.20
90-120	499.21	N.A.	12.20
90-130	823.81	N.A.	20.10
90-150	1361.33	N.A.	33.20
90-180	1644.71	N.A.	40.10
110-180	1429.48	N.A.	34.80
0-180	4102.02	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	37.54
100-110	177.69
110-120	283.97
120-130	324.61
130-140	303.39
140-150	234.13
150-160	160.94
160-170	92.48
170-180	29.96

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

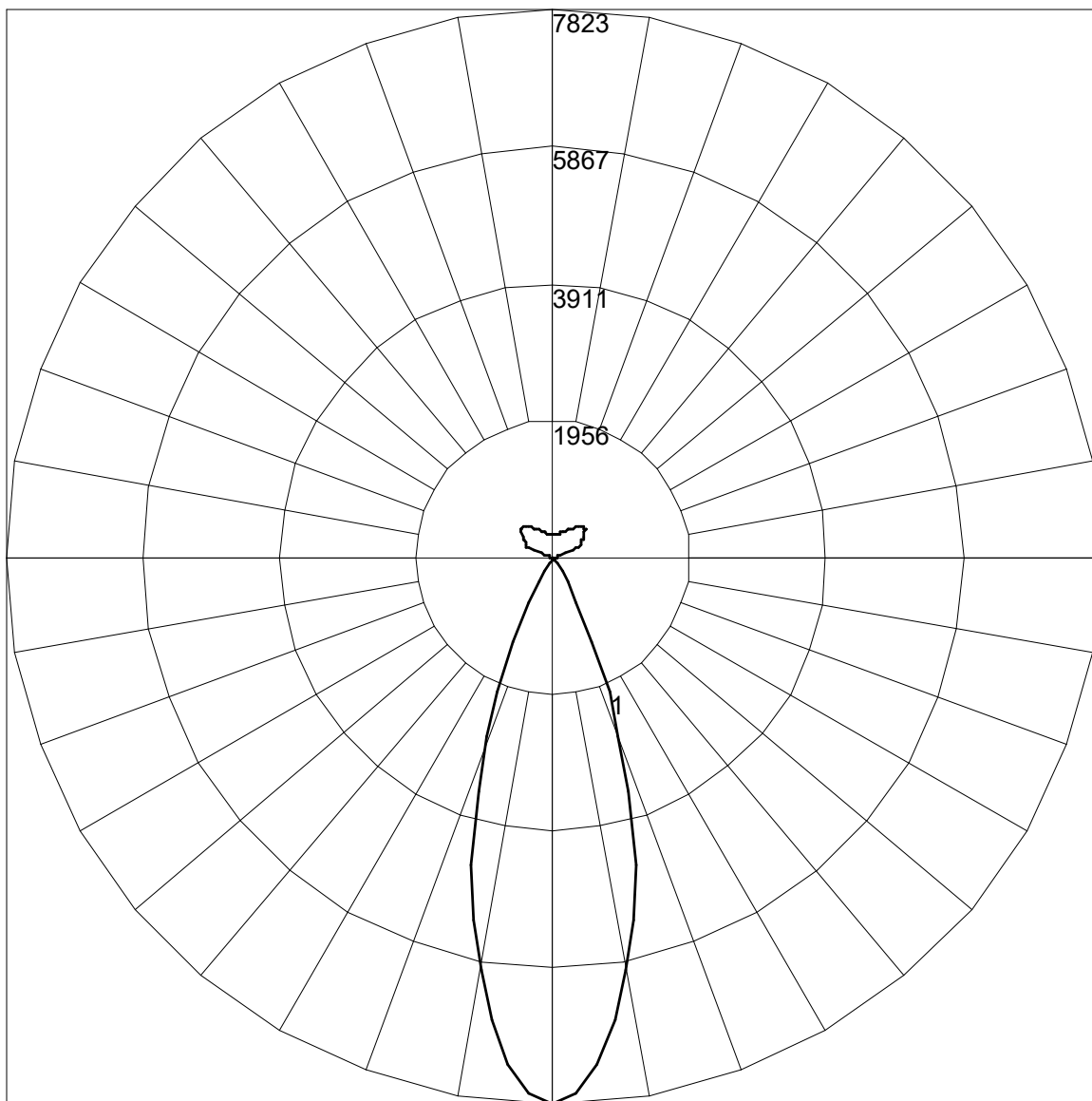
Effective Floor Cavity Reflectance 0.20

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	110	110	110	110	103	103	103	103	90	90	90	77	77	77	66	66	66	60
1	104	101	99	96	98	95	93	91	84	82	81	73	72	71	64	63	63	58
2	99	94	90	86	93	89	85	82	79	76	74	70	68	67	62	61	60	56
3	94	87	82	78	88	83	78	75	74	71	69	67	65	63	59	58	57	54
4	89	81	76	72	84	78	73	69	70	67	64	64	61	59	57	56	54	52
5	85	76	71	67	80	73	68	65	67	63	60	61	58	56	55	54	52	50
6	81	72	66	62	76	69	64	61	64	60	57	58	56	54	54	52	50	48
7	77	68	63	59	73	66	61	57	61	57	54	56	53	51	52	50	48	46
8	74	65	59	55	70	62	58	54	58	54	52	54	51	49	50	48	47	45
9	71	62	56	53	67	60	55	51	56	52	49	52	49	47	49	46	45	43
10	68	59	54	50	65	57	52	49	54	50	47	50	47	45	47	45	43	42

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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)