

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-V-835-WSO-MLB-ITL89456-KPL2008-6.009.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-6.009 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-H-V-835-WSO-MLB
[INPUT_ELECTRICAL]120.0 VOLTS, 64.0 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 64.0 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]5585

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5582
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	64
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	14.000	24.111	24.111	23.333	23.333
95.0	36.556	64.556	64.556	53.667	52.889
97.5	61.444	105.778	129.889	93.333	87.889
100.0	87.111	137.667	258.222	150.111	132.222
102.5	115.111	168.000	357.000	265.222	210.778
105.0	142.333	200.667	413.778	432.444	356.222
107.5	169.556	232.556	448.778	583.333	543.667
110.0	196.778	262.111	479.889	672.000	679.000
112.5	224.000	290.889	516.445	730.333	759.889
115.0	252.000	318.111	560.000	772.333	815.111
117.5	280.000	345.333	607.445	812.000	857.889
120.0	308.000	374.111	646.333	854.000	900.667
122.5	333.667	398.222	674.333	913.111	945.778
125.0	357.778	421.556	689.889	977.667	1010.333
127.5	380.333	443.333	699.222	1021.222	1081.889
130.0	399.000	462.000	704.667	1039.111	1133.222
132.5	417.667	479.111	706.222	1032.111	1149.556

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-WSO-MLB-ITL89456-KPL2008-6.009.IES****CANDELA TABULATION - (Cont.)**

135.0	434.000	493.111	705.445	1010.333	1133.222
137.5	448.778	506.333	703.111	980.778	1099.000
140.0	463.556	518.000	699.222	948.111	1055.444
142.5	477.556	528.889	693.778	911.555	1008.778
145.0	492.333	539.000	688.333	876.555	961.333
147.5	504.778	546.778	682.111	840.778	913.111
150.0	517.222	555.333	674.333	808.889	868.000
152.5	528.889	561.555	665.000	778.555	826.000
155.0	539.778	566.222	655.667	749.000	787.111
157.5	549.889	572.445	647.111	721.778	752.111
160.0	558.445	576.333	637.000	695.333	719.445
162.5	566.222	579.445	626.889	672.778	689.111
165.0	572.445	582.555	616.778	651.000	663.445
167.5	577.889	584.889	609.000	632.333	640.889
170.0	582.555	587.222	603.555	617.555	623.000
172.5	584.889	588.778	597.333	605.111	609.778
175.0	588.000	589.555	593.445	597.333	598.889
177.5	589.555	589.555	591.111	591.111	591.889
180.0	590.333	590.333	590.333	590.333	590.333

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-WSO-MLB-ITL89456-KPL2008-6.009.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1792.87	N.A.	32.10
0-30	2354.14	N.A.	42.20
0-40	2440.51	N.A.	43.70
0-60	2455.1	N.A.	44.00
0-80	2457.22	N.A.	44.00
0-90	2457.31	N.A.	44.00
10-90	1808.53	N.A.	32.40
20-40	647.64	N.A.	11.60
20-50	658.27	N.A.	11.80
40-70	16.15	N.A.	0.30
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	408.95	N.A.	7.30
90-120	948.49	N.A.	17.00
90-130	1565.25	N.A.	28.00
90-150	2586.53	N.A.	46.30
90-180	3124.96	N.A.	56.00
110-180	2716.01	N.A.	48.70
0-180	5582.27	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	71.33
100-110	337.61
110-120	539.54
120-130	616.76
130-140	576.44
140-150	444.84
150-160	305.78
160-170	175.72
170-180	56.93

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

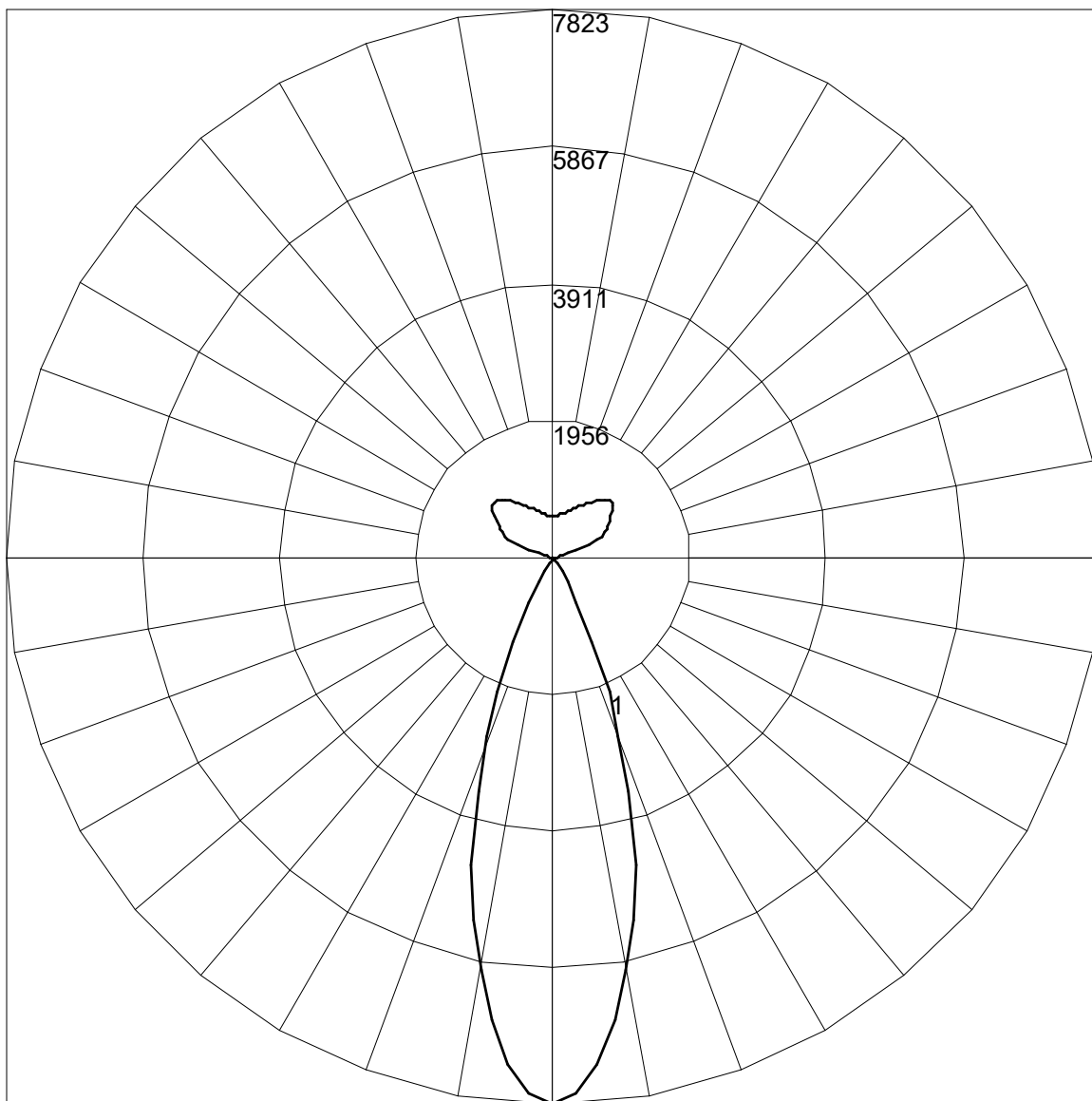
Effective Floor Cavity Reflectance 0.20

RC	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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	99	96	93	90	91	88	86	84	74	72	71	61	60	59	49	48	48	42
2	93	87	83	79	85	81	77	74	69	66	64	57	56	54	47	46	45	41
3	87	80	75	71	80	75	70	66	64	61	58	54	52	51	45	44	43	39
4	82	74	68	64	76	69	64	60	60	57	54	51	49	47	43	42	41	38
5	77	69	63	58	72	65	59	55	56	53	50	49	46	45	42	40	39	36
6	73	64	58	54	68	60	55	51	53	49	47	47	44	42	40	39	38	35
7	69	60	54	50	65	57	52	48	50	47	44	45	42	40	39	37	36	34
8	66	57	51	47	62	54	48	45	48	44	41	43	40	38	38	36	35	33
9	63	53	48	44	59	51	46	42	46	42	39	41	38	36	36	35	33	32
10	60	51	45	41	56	48	43	40	44	40	37	39	37	35	35	33	32	31

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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)