

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 : S11-LED-MP-4FT-B-8-35-ITL85172.002.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85172.002 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]09/17/15
[ISSUE DATE]04/21/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE S11-LED-MP-4ft-B-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 10.0 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 12.6 WATTS
[ABSOLUTE LUMENS]1212
[OTHER]see www.finelite.com for source file ITL85172. For further details on Finelite family correlation files, go to
[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1212
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.09 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.05 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	459	0	0
75	1705	796	0
85	5306	4141	0

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	2.573	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	8.749	4.117	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	14.409	9.263	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	19.556	14.924	1.029	0.000	0.000	0.000	0.000	0.000	0.000
70.0	25.731	20.070	6.690	0.000	0.000	0.000	0.000	0.000	0.000
72.5	34.994	27.275	11.836	0.000	0.000	0.000	0.000	0.000	0.000
75.0	46.316	38.596	17.497	0.000	0.000	0.000	0.000	0.000	0.000
77.5	61.754	53.006	27.789	1.029	0.000	0.000	0.000	0.000	0.000
80.0	78.737	69.474	40.655	5.661	0.000	0.000	0.000	0.000	0.000
82.5	97.263	86.971	54.550	13.380	0.000	0.000	0.000	0.000	0.000
85.0	117.333	105.497	69.474	22.643	0.000	0.000	0.000	0.000	0.000
87.5	141.006	126.082	84.912	32.936	0.000	0.000	0.000	0.000	0.000
90.0	163.649	147.181	101.380	43.743	0.000	0.000	0.000	0.000	0.000
92.5	185.263	167.766	118.877	55.579	5.661	0.000	0.000	0.000	0.000
95.0	209.450	190.409	136.889	68.444	12.351	0.000	0.000	0.000	0.000
97.5	234.152	213.053	155.415	82.339	20.070	0.000	0.000	0.000	0.000
100.0	258.854	235.696	174.971	96.234	28.819	0.000	0.000	0.000	0.000
102.5	282.012	258.339	194.526	111.158	39.626	0.000	0.000	0.000	0.000
105.0	304.655	280.468	214.596	127.111	50.947	3.088	0.000	0.000	0.000
107.5	325.754	301.053	234.667	143.579	62.784	7.205	0.000	0.000	0.000
110.0	345.825	321.637	254.222	161.076	75.649	14.409	0.000	0.000	0.000
112.5	364.351	340.164	273.778	177.029	89.544	24.702	0.000	0.000	0.000
115.0	380.819	357.661	291.789	194.526	104.468	34.480	2.058	0.000	0.000
117.5	395.743	373.099	309.287	212.023	119.392	45.801	7.205	0.000	0.000
120.0	410.152	388.023	325.754	230.035	135.345	58.152	12.351	0.000	0.000
122.5	421.988	401.404	341.193	247.018	151.813	71.018	16.982	5.146	0.515
125.0	431.766	412.725	356.117	264.000	168.281	84.398	24.702	10.807	6.690
127.5	441.029	423.018	368.982	280.468	185.263	99.322	36.023	15.953	12.351
130.0	449.778	432.281	381.333	295.906	202.246	114.246	49.404	21.099	16.982
132.5	455.953	440.000	392.140	310.830	219.228	130.199	63.813	28.304	22.643

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CANDELA TABULATION - (Cont.)

135.0	462.129	447.205	401.918	325.240	236.211	145.637	79.251	39.626	29.848
137.5	466.760	452.866	410.667	337.591	252.164	162.620	95.719	53.006	41.684
140.0	470.877	456.982	417.871	348.912	268.117	180.117	113.216	69.474	56.608
142.5	473.965	461.099	424.047	360.749	283.556	197.614	131.228	87.485	74.105
145.0	476.023	463.673	429.708	370.012	298.480	215.626	150.269	106.526	93.146
147.5	477.053	465.731	434.854	379.275	312.374	233.637	169.825	127.111	113.731
150.0	477.053	466.760	437.942	386.994	325.754	251.135	190.409	148.725	135.860
152.5	476.023	466.760	441.029	393.684	337.591	268.632	211.509	171.368	159.018
155.0	474.994	465.731	442.573	399.345	348.398	285.099	232.094	194.526	183.205
157.5	471.906	463.673	443.088	403.462	358.175	300.538	253.193	218.199	207.906
160.0	468.819	461.099	442.573	407.064	366.409	315.462	273.263	242.386	232.094
162.5	463.158	456.468	441.029	409.123	373.614	329.357	292.819	265.029	254.737
165.0	457.497	452.866	438.456	411.181	380.304	343.251	310.830	288.187	279.439
167.5	451.322	447.205	434.339	411.696	385.965	355.602	328.842	310.316	303.111
170.0	443.602	440.000	429.193	410.667	390.082	366.409	345.310	330.901	325.240
172.5	434.854	431.251	423.018	409.637	393.170	376.187	360.234	349.942	346.339
175.0	423.532	421.474	416.327	406.550	395.743	384.936	374.129	367.439	365.380
177.5	411.696	410.152	407.579	402.433	397.287	391.626	386.994	383.392	382.877
180.0	397.801	397.801	397.801	397.801	397.801	397.801	397.801	397.801	397.801

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.02	N.A.	0.00
0-80	13.75	N.A.	1.10
0-90	49.20	N.A.	4.10
10-90	49.20	N.A.	4.10
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	2.25	N.A.	0.20
60-80	13.73	N.A.	1.10
70-80	11.49	N.A.	0.90
80-90	35.46	N.A.	2.90
90-110	179.75	N.A.	14.80
90-120	325.41	N.A.	26.80
90-130	497.82	N.A.	41.10
90-150	864.80	N.A.	71.30
90-180	1162.9	N.A.	95.90
110-180	983.15	N.A.	81.10
0-180	1212.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.02
60-70	2.24
70-80	11.49
80-90	35.46
90-100	70.22
100-110	109.53
110-120	145.66
120-130	172.42
130-140	185.54
140-150	181.44
150-160	155.22
160-170	105.41
170-180	37.46

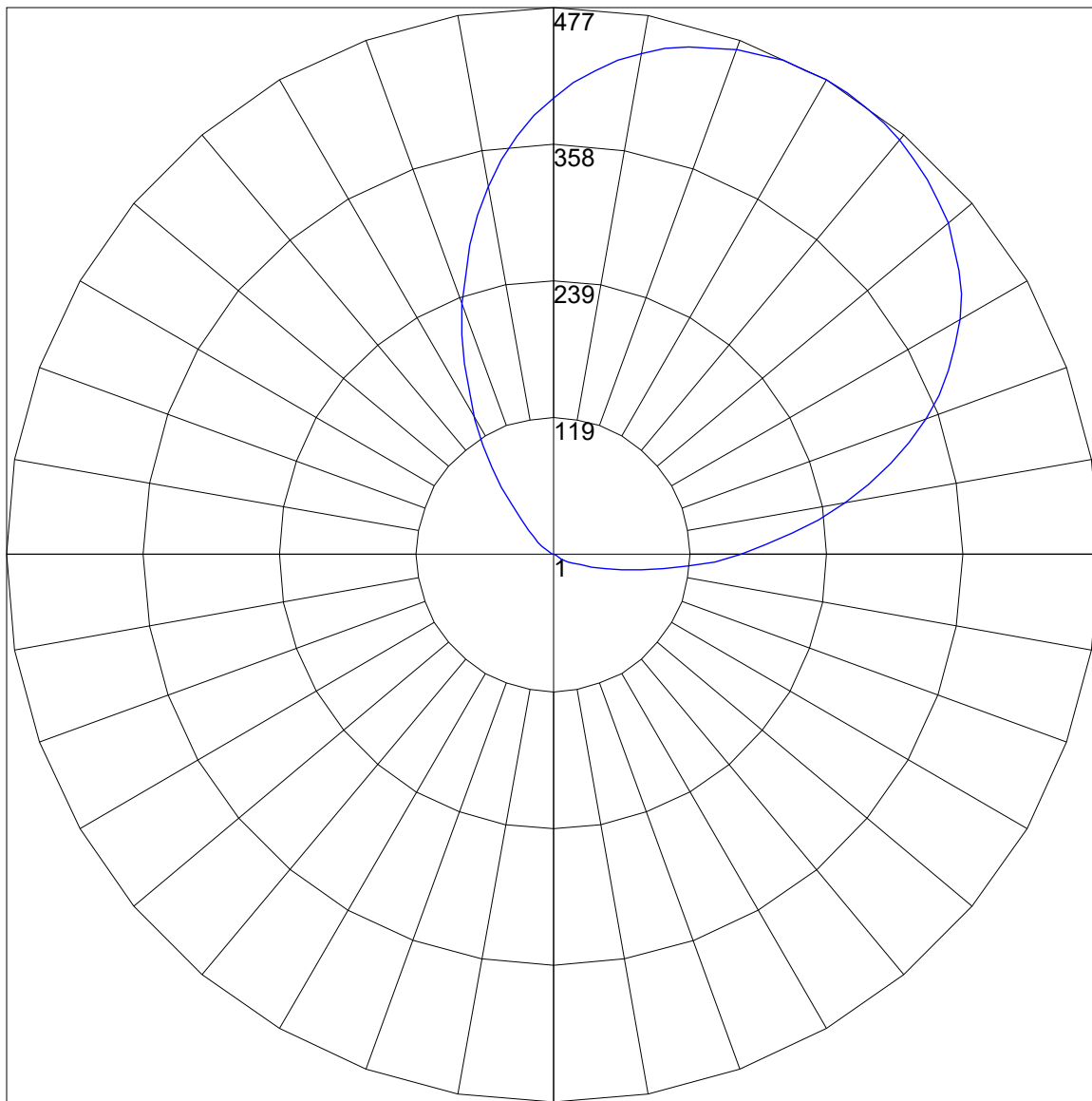
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	96	96	96	83	83	83	83	58	58	58	35	35	35	14	14	14	4
1	86	82	78	74	74	70	67	64	49	46	45	29	28	26	10	10	9	1
2	78	71	65	60	67	61	56	52	42	39	36	25	23	22	9	8	7	0
3	71	62	55	49	61	53	48	43	37	33	30	22	20	18	8	7	6	0
4	65	55	47	41	55	47	41	36	33	29	25	19	17	15	7	6	5	0
5	59	48	41	35	51	42	35	31	29	25	22	17	15	13	6	5	4	0
6	54	43	36	30	46	37	31	26	26	22	19	15	13	11	5	4	4	0
7	50	39	31	26	43	33	27	23	23	19	16	14	11	10	5	4	3	0
8	46	35	28	23	40	30	24	20	21	17	14	12	10	8	4	4	3	0
9	43	31	24	20	37	27	21	17	19	15	12	11	9	7	4	3	2	0
10	40	29	22	17	34	25	19	15	17	13	11	10	8	6	4	3	2	0

POLAR GRAPH



Maximum Candela = 477.053 Located At Horizontal Angle = 0, Vertical Angle = 147.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)