

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-H-8-35-ITL85172.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85172.003 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-H-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 15.1 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 17.7 WATTS
[ABSOLUTE LUMENS]1832
[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	1832
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	15.1
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	694	0	0
75	2577	1202	0
85	8020	6259	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : S11-LED-MP-4FT-H-8-35-ITL85172.003.IES

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	3.889	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	13.222	6.222	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	21.778	14.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	29.556	22.556	1.556	0.000	0.000	0.000	0.000	0.000	0.000
70.0	38.889	30.333	10.111	0.000	0.000	0.000	0.000	0.000	0.000
72.5	52.889	41.222	17.889	0.000	0.000	0.000	0.000	0.000	0.000
75.0	70.000	58.333	26.444	0.000	0.000	0.000	0.000	0.000	0.000
77.5	93.333	80.111	42.000	1.556	0.000	0.000	0.000	0.000	0.000
80.0	119.000	105.000	61.444	8.556	0.000	0.000	0.000	0.000	0.000
82.5	147.000	131.444	82.444	20.222	0.000	0.000	0.000	0.000	0.000
85.0	177.333	159.444	105.000	34.222	0.000	0.000	0.000	0.000	0.000
87.5	213.111	190.556	128.333	49.778	0.000	0.000	0.000	0.000	0.000
90.0	247.333	222.444	153.222	66.111	0.000	0.000	0.000	0.000	0.000
92.5	280.000	253.556	179.667	84.000	8.556	0.000	0.000	0.000	0.000
95.0	316.556	287.778	206.889	103.444	18.667	0.000	0.000	0.000	0.000
97.5	353.889	322.000	234.889	124.444	30.333	0.000	0.000	0.000	0.000
100.0	391.222	356.222	264.444	145.444	43.556	0.000	0.000	0.000	0.000
102.5	426.222	390.444	294.000	168.000	59.889	0.000	0.000	0.000	0.000
105.0	460.444	423.889	324.333	192.111	77.000	4.667	0.000	0.000	0.000
107.5	492.333	455.000	354.667	217.000	94.889	10.889	0.000	0.000	0.000
110.0	522.667	486.111	384.222	243.444	114.333	21.778	0.000	0.000	0.000
112.5	550.667	514.111	413.778	267.556	135.333	37.333	0.000	0.000	0.000
115.0	575.556	540.556	441.000	294.000	157.889	52.111	3.111	0.000	0.000
117.5	598.111	563.889	467.444	320.444	180.444	69.222	10.889	0.000	0.000
120.0	619.889	586.444	492.333	347.667	204.556	87.889	18.667	0.000	0.000
122.5	637.778	606.667	515.667	373.333	229.444	107.333	25.667	7.778	0.778
125.0	652.556	623.778	538.222	399.000	254.333	127.556	37.333	16.333	10.111
127.5	666.556	639.333	557.667	423.889	280.000	150.111	54.444	24.111	18.667
130.0	679.778	653.333	576.333	447.222	305.667	172.667	74.667	31.889	25.667
132.5	689.111	665.000	592.667	469.778	331.333	196.778	96.444	42.778	34.222

IES INDOOR REPORT
PHOTOMETRIC FILENAME : S11-LED-MP-4FT-H-8-35-ITL85172.003.IES

CANDELA TABULATION - (Cont.)

135.0	698.444	675.889	607.444	491.556	357.000	220.111	119.778	59.889	45.111
137.5	705.444	684.444	620.667	510.222	381.111	245.778	144.667	80.111	63.000
140.0	711.667	690.667	631.556	527.333	405.222	272.222	171.111	105.000	85.556
142.5	716.333	696.889	640.889	545.222	428.556	298.667	198.333	132.222	112.000
145.0	719.444	700.778	649.444	559.222	451.111	325.889	227.111	161.000	140.778
147.5	721.000	703.889	657.222	573.222	472.111	353.111	256.667	192.111	171.889
150.0	721.000	705.444	661.889	584.889	492.333	379.556	287.778	224.778	205.333
152.5	719.444	705.444	666.556	595.000	510.222	406.000	319.667	259.000	240.333
155.0	717.889	703.889	668.889	603.556	526.556	430.889	350.778	294.000	276.889
157.5	713.222	700.778	669.667	609.778	541.333	454.222	382.667	329.778	314.222
160.0	708.556	696.889	668.889	615.222	553.778	476.778	413.000	366.333	350.778
162.5	700.000	689.889	666.556	618.333	564.667	497.778	442.556	400.556	385.000
165.0	691.444	684.444	662.667	621.444	574.778	518.778	469.778	435.556	422.333
167.5	682.111	675.889	656.444	622.222	583.333	537.444	497.000	469.000	458.111
170.0	670.444	665.000	648.667	620.667	589.556	553.778	521.889	500.111	491.556
172.5	657.222	651.778	639.333	619.111	594.222	568.556	544.444	528.889	523.444
175.0	640.111	637.000	629.222	614.444	598.111	581.778	565.444	555.333	552.222
177.5	622.222	619.889	616.000	608.222	600.444	591.889	584.889	579.444	578.667
180.0	601.222	601.222	601.222	601.222	601.222	601.222	601.222	601.222	601.222

IES INDOOR REPORT
PHOTOMETRIC FILENAME : S11-LED-MP-4FT-H-8-35-ITL85172.003.IES

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	0.03	N.A.	0.00
0-80	20.78	N.A.	1.10
0-90	74.36	N.A.	4.10
10-90	74.36	N.A.	4.10
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	3.41	N.A.	0.20
60-80	20.75	N.A.	1.10
70-80	17.37	N.A.	0.90
80-90	53.59	N.A.	2.90
90-110	271.66	N.A.	14.80
90-120	491.81	N.A.	26.80
90-130	752.39	N.A.	41.10
90-150	1307.03	N.A.	71.30
90-180	1757.56	N.A.	95.90
110-180	1485.9	N.A.	81.10
0-180	1831.93	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	0.03
60-70	3.38
70-80	17.37
80-90	53.59
90-100	106.13
100-110	165.53
110-120	220.14
120-130	260.58
130-140	280.42
140-150	274.22
150-160	234.60
160-170	159.31
170-180	56.62

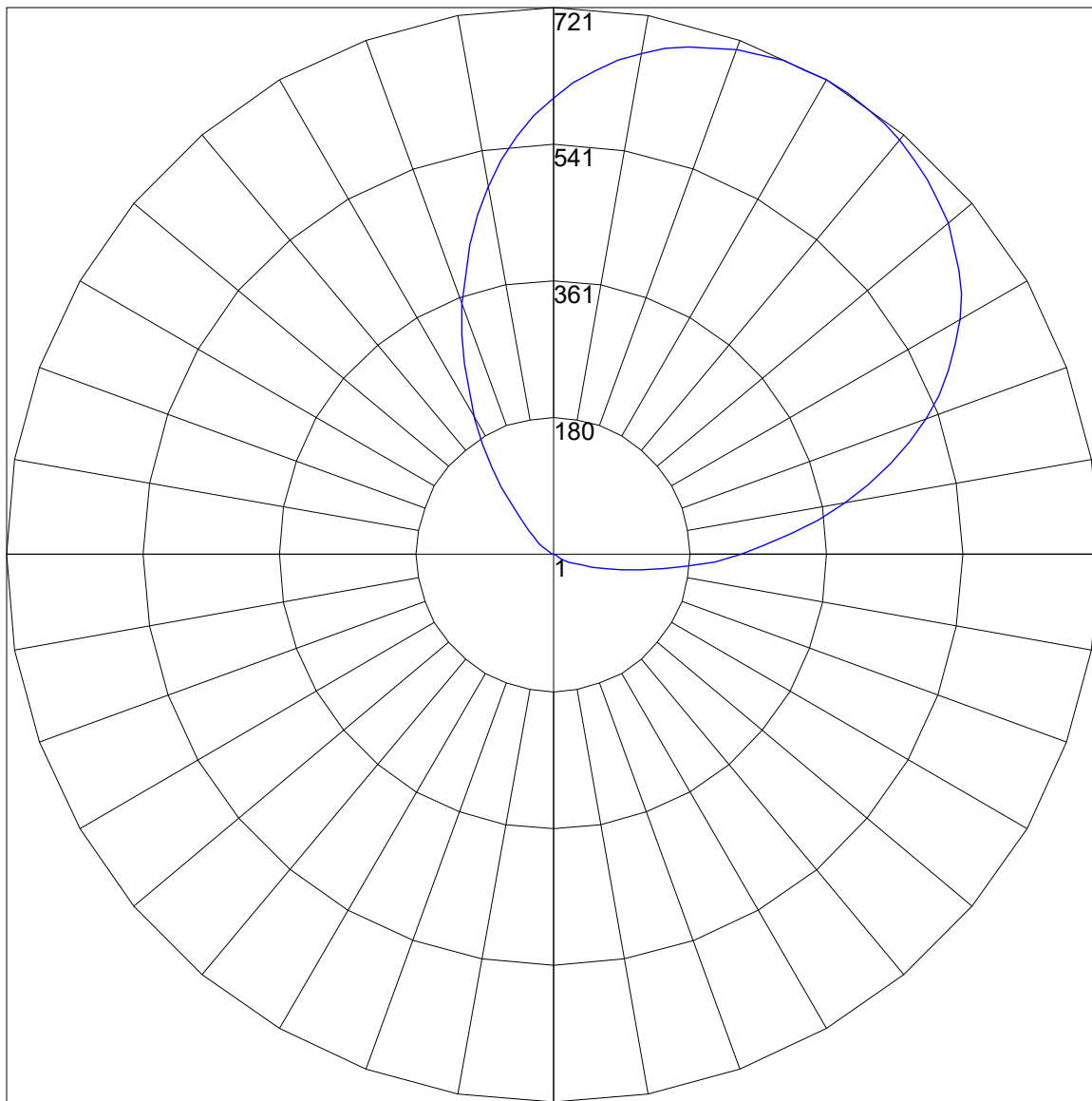
IES INDOOR REPORT
PHOTOMETRIC FILENAME : S11-LED-MP-4FT-H-8-35-ITL85172.003.IES

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	27	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 = 721 Located At Horizontal Angle = 0, Vertical Angle = 147.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)