

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-V-8-TW-ITL85172.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85172.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]09/16/15
[ISSUE DATE]04/15/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE S11-LED-MP-4ft-V-8-TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 21.6 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 23.3 WATTS
[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
[_ABSOLUTE LUMENS]2355

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2355
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	21.6
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	892	0	0
75	3313	1546	0
85	10311	8047	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	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0
60.0	5	0	0	0	0	0	0	0	0
62.5	17	8	0	0	0	0	0	0	0
65.0	28	18	0	0	0	0	0	0	0
67.5	38	29	2	0	0	0	0	0	0
70.0	50	39	13	0	0	0	0	0	0
72.5	68	53	23	0	0	0	0	0	0
75.0	90	75	34	0	0	0	0	0	0
77.5	120	103	54	2	0	0	0	0	0
80.0	153	135	79	11	0	0	0	0	0
82.5	189	169	106	26	0	0	0	0	0
85.0	228	205	135	44	0	0	0	0	0
87.5	274	245	165	64	0	0	0	0	0
90.0	318	286	197	85	0	0	0	0	0
92.5	360	326	231	108	11	0	0	0	0
95.0	407	370	266	133	24	0	0	0	0
97.5	455	414	302	160	39	0	0	0	0
100.0	503	458	340	187	56	0	0	0	0
102.5	548	502	378	216	77	0	0	0	0
105.0	592	545	417	247	99	6	0	0	0
107.5	633	585	456	279	122	14	0	0	0
110.0	672	625	494	313	147	28	0	0	0
112.5	708	661	532	344	174	48	0	0	0
115.0	740	695	567	378	203	67	4	0	0
117.5	769	725	601	412	232	89	14	0	0
120.0	797	754	633	447	263	113	24	0	0
122.5	820	780	663	480	295	138	33	10	1
125.0	839	802	692	513	327	164	48	21	13
127.5	857	822	717	545	360	193	70	31	24
130.0	874	840	741	575	393	222	96	41	33
132.5	886	855	762	604	426	253	124	55	44

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CANDELA TABULATION - (Cont.)

135.0	898	869	781	632	459	283	154	77	58
137.5	907	880	798	656	490	316	186	103	81
140.0	915	888	812	678	521	350	220	135	110
142.5	921	896	824	701	551	384	255	170	144
145.0	925	901	835	719	580	419	292	207	181
147.5	927	905	845	737	607	454	330	247	221
150.0	927	907	851	752	633	488	370	289	264
152.5	925	907	857	765	656	522	411	333	309
155.0	923	905	860	776	677	554	451	378	356
157.5	917	901	861	784	696	584	492	424	404
160.0	911	896	860	791	712	613	531	471	451
162.5	900	887	857	795	726	640	569	515	495
165.0	889	880	852	799	739	667	604	560	543
167.5	877	869	844	800	750	691	639	603	589
170.0	862	855	834	798	758	712	671	643	632
172.5	845	838	822	796	764	731	700	680	673
175.0	823	819	809	790	769	748	727	714	710
177.5	800	797	792	782	772	761	752	745	744
180.0	773	773	773	773	773	773	773	773	773

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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	0.04	N.A.	0.00
0-80	26.71	N.A.	1.10
0-90	95.61	N.A.	4.10
10-90	95.61	N.A.	4.10
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	4.38	N.A.	0.20
60-80	26.68	N.A.	1.10
70-80	22.33	N.A.	0.90
80-90	68.90	N.A.	2.90
90-110	349.28	N.A.	14.80
90-120	632.32	N.A.	26.80
90-130	967.36	N.A.	41.10
90-150	1680.47	N.A.	71.30
90-180	2259.72	N.A.	95.90
110-180	1910.44	N.A.	81.10
0-180	2355.33	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	0.04
60-70	4.34
70-80	22.33
80-90	68.90
90-100	136.45
100-110	212.83
110-120	283.04
120-130	335.03
130-140	360.55
140-150	352.57
150-160	301.63
160-170	204.83
170-180	72.79

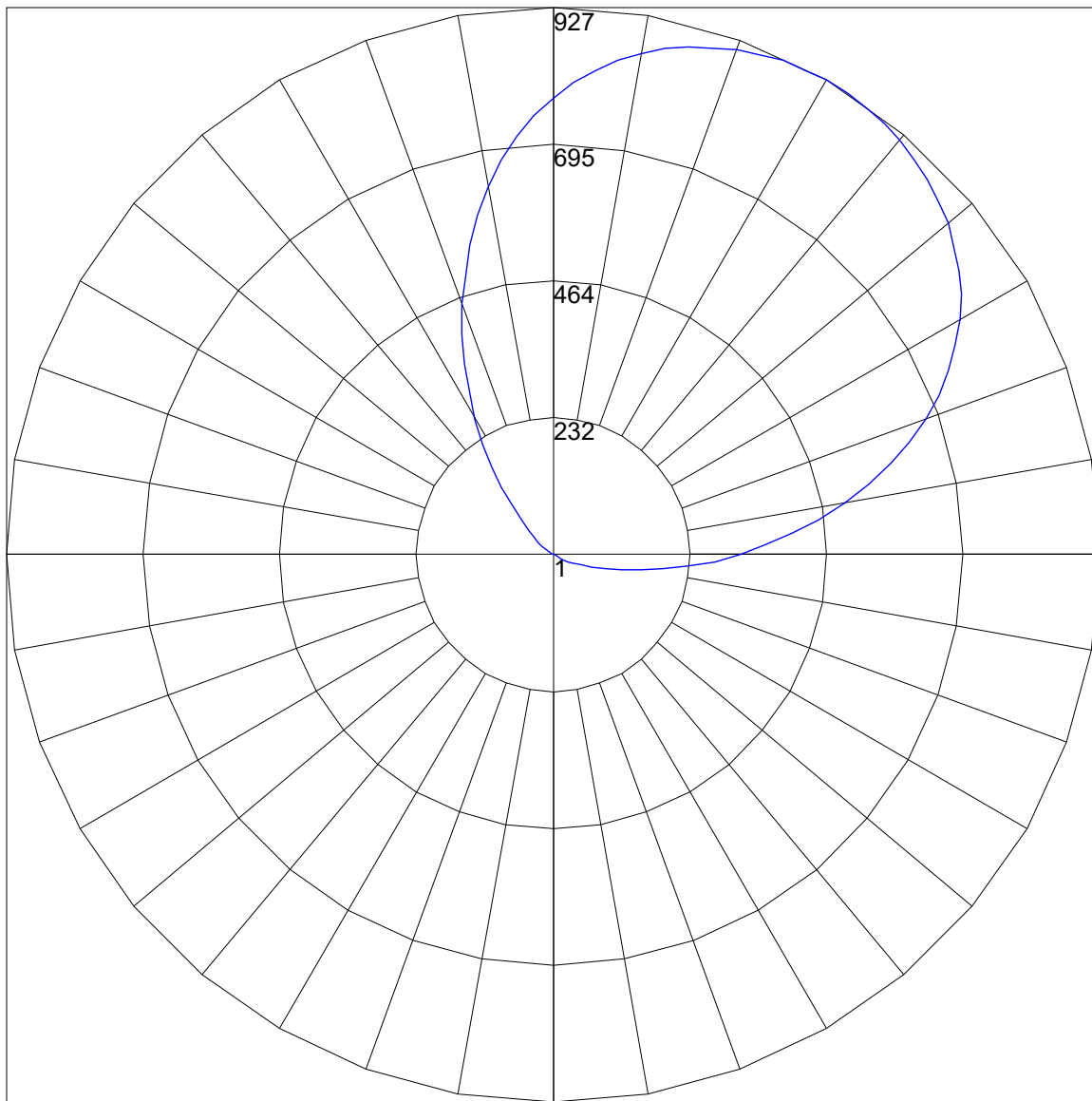
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 927 Located At Horizontal Angle = 0, Vertical Angle = 147.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)