

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 : S12-LED-ID-DCO-4FT-3E-V-V-8-TW-OPEN-ITL85163.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85163.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]09/11/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE S12-LED-ID-DCO-4ft-3E-V-V-8-TW-OPEN

[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, 62.7 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 65.4 WATTS

[OTHER]see www.finelite.com for source file ITL85163. 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]7070

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7070
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	62.7
Ballast Factor	1.00
CIE Type	Semi-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)	3.32 ft
Luminous Width (90-270)	0.36 ft
Luminous Height	0.03 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5771	5469	5388
55	5391	4998	4909
65	4880	4424	4311
75	4042	3564	3586
85	2391	2418	2778

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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	754	754	754	754	754
2.5	753	753	753	753	753
5.0	750	750	750	750	750
7.5	745	745	745	745	746
10.0	737	736	738	738	738
12.5	729	727	730	730	729
15.0	718	714	718	719	718
17.5	705	701	705	706	705
20.0	690	685	690	691	691
22.5	672	667	673	674	673
25.0	653	649	654	656	655
27.5	634	629	635	636	636
30.0	612	608	613	614	613
32.5	590	586	591	593	591
35.0	567	563	568	569	568
37.5	541	538	543	544	543
40.0	516	513	517	519	518
42.5	491	488	491	494	492
45.0	464	462	465	467	466
47.5	437	435	438	439	438
50.0	408	407	411	412	411
52.5	381	380	382	384	384
55.0	353	352	354	356	356
57.5	324	324	327	328	328
60.0	296	295	298	300	300
62.5	266	267	269	271	272
65.0	237	238	241	242	243
67.5	208	209	212	214	214
70.0	179	181	185	186	188
72.5	150	153	157	160	163
75.0	122	126	130	135	138
77.5	95	99	106	111	113
80.0	69	74	82	88	90
82.5	46	51	60	68	71
85.0	26	32	42	51	54
87.5	9	16	28	36	39
90.0	0	6	16	24	27
92.5	26	350	686	788	697
95.0	54	414	788	1021	1090
97.5	85	446	832	1066	1144
100.0	118	481	854	1086	1164
102.5	151	486	863	1091	1169
105.0	185	499	866	1087	1162
107.5	220	515	876	1078	1150
110.0	257	532	866	1072	1138
112.5	291	553	862	1075	1134
115.0	325	575	862	1058	1130
117.5	360	599	863	1047	1109
120.0	394	626	868	1041	1099
122.5	428	653	874	1035	1090
125.0	460	680	880	1031	1082
127.5	495	706	888	1029	1076
130.0	525	730	896	1026	1070
132.5	556	750	906	1024	1065

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-V-V-8-TW-OPEN-ITL85163.900.IES****CANDELA TABULATION - (Cont.)**

135.0	585	765	916	1023	1061
137.5	613	777	927	1022	1056
140.0	641	788	940	1022	1052
142.5	667	797	950	1023	1049
145.0	691	803	960	1025	1046
147.5	714	807	965	1028	1046
150.0	735	811	963	1030	1046
152.5	755	814	956	1029	1045
155.0	773	819	947	1019	1040
157.5	789	825	933	1003	1026
160.0	803	830	917	983	1005
162.5	816	836	900	958	980
165.0	826	840	884	929	949
167.5	835	845	873	901	917
170.0	842	848	865	881	891
172.5	847	851	860	869	874
175.0	851	854	857	861	863
177.5	854	855	855	857	857
180.0	855	855	855	855	855

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-3E-V-V-8-TW-OPEN-ITL85163.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	273.44	N.A.	3.90
0-30	574.32	N.A.	8.10
0-40	928.54	N.A.	13.10
0-60	1603.55	N.A.	22.70
0-80	1979.69	N.A.	28.00
0-90	2027.2	N.A.	28.70
10-90	1956.00	N.A.	27.70
20-40	655.10	N.A.	9.30
20-50	1013.4	N.A.	14.30
40-70	912.90	N.A.	12.90
60-80	376.15	N.A.	5.30
70-80	138.25	N.A.	2.00
80-90	47.51	N.A.	0.70
90-110	1473.11	N.A.	20.80
90-120	2272.81	N.A.	32.10
90-130	3027.01	N.A.	42.80
90-150	4282.48	N.A.	60.60
90-180	5042.47	N.A.	71.30
110-180	3569.36	N.A.	50.50
0-180	7069.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	71.20
10-20	202.24
20-30	300.88
30-40	354.22
40-50	358.30
50-60	316.71
60-70	237.89
70-80	138.25
80-90	47.51
90-100	647.09
100-110	826.01
110-120	799.70
120-130	754.20
130-140	682.15
140-150	573.32
150-160	426.14
160-170	251.78
170-180	82.07

IES INDOOR REPORT

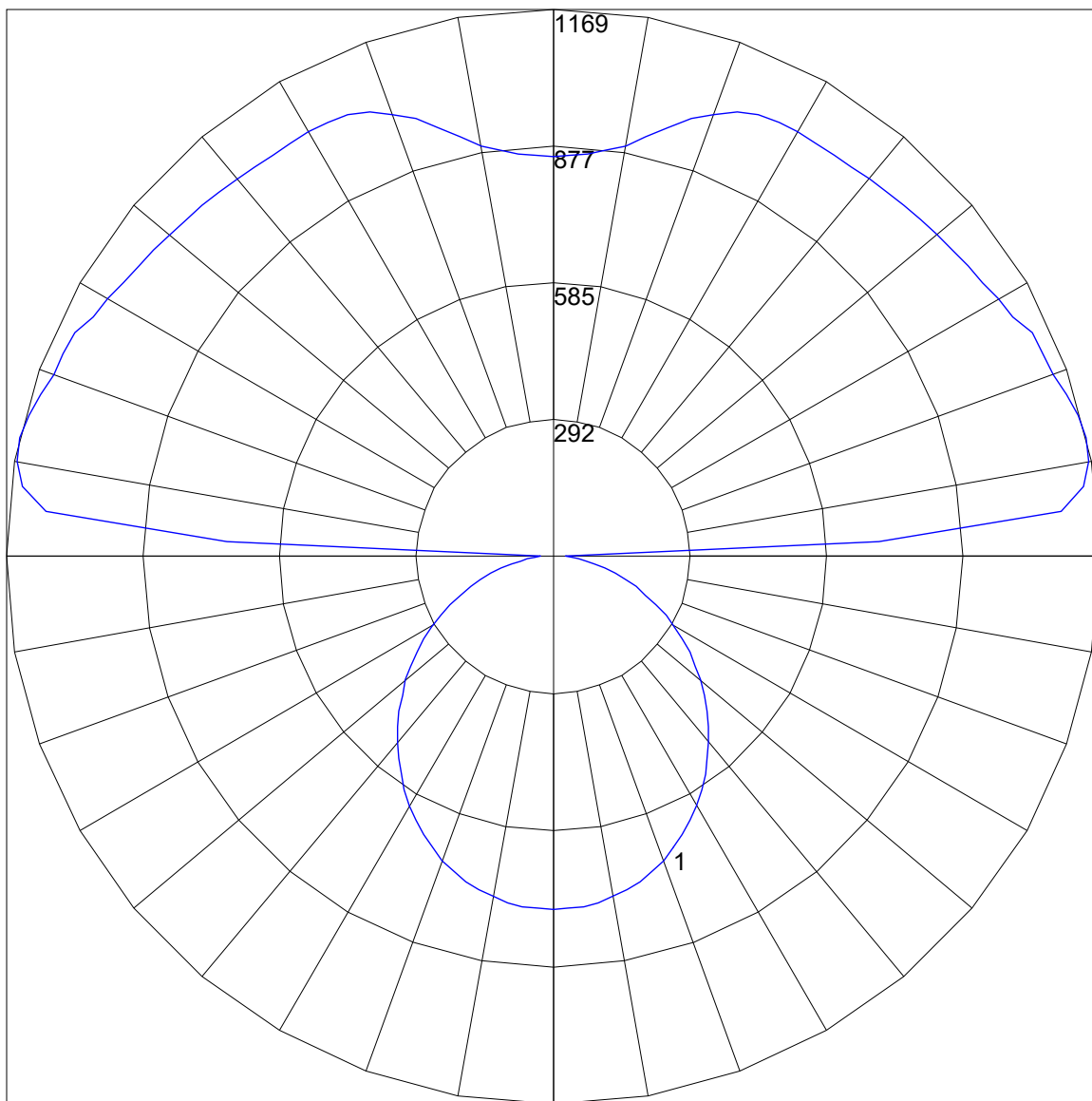
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	37	37	37	29
1	93	89	85	81	83	80	76	74	62	60	58	47	45	44	32	31	31	24
2	85	77	71	66	75	69	64	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	46	63	54	47	42	43	38	34	32	29	26	22	20	19	14
5	64	53	45	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

POLAR GRAPH



Maximum Candela = 1169 Located At Horizontal Angle = 90, Vertical Angle = 102.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)