

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-2E-V-8-TW-OPEN-ITL85161.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85161.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]09/09/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE S12-LED-ID-DCO-4ft-2E-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, 41.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 42.0 WATTS

[OTHER]see www.finelite.com for source file ITL85161. 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

[_ABSOLUTELUMENS]4784

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4784
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	41
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	3445	3458	3596
55	3314	3276	3406
65	3068	2937	3052
75	2618	2385	2546
85	1471	1670	2058

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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	411	411	411	411	411
2.5	410	410	411	411	411
5.0	409	409	410	410	410
7.5	407	407	408	409	409
10.0	405	404	406	408	408
12.5	401	400	404	406	406
15.0	396	395	400	403	403
17.5	391	390	396	400	401
20.0	385	383	391	396	397
22.5	377	376	385	391	393
25.0	369	369	378	386	388
27.5	359	360	371	379	382
30.0	350	351	362	372	375
32.5	339	342	353	363	367
35.0	328	331	343	354	358
37.5	316	319	332	343	348
40.0	304	307	320	331	337
42.5	291	294	307	319	324
45.0	277	281	294	305	311
47.5	263	266	279	291	296
50.0	248	252	264	275	281
52.5	233	236	248	259	264
55.0	217	220	232	242	247
57.5	201	204	215	224	229
60.0	184	187	197	206	211
62.5	167	170	179	187	192
65.0	149	152	160	169	172
67.5	131	134	142	150	153
70.0	113	116	123	131	134
72.5	97	98	105	113	116
75.0	79	81	87	96	98
77.5	62	64	71	79	82
80.0	46	48	56	63	66
82.5	31	33	41	49	52
85.0	16	20	29	37	40
87.5	5	10	19	26	29
90.0	0	4	11	17	20
92.5	14	255	16	16	17
95.0	29	327	635	632	323
97.5	42	370	676	870	930
100.0	54	393	706	888	948
102.5	68	404	729	909	966
105.0	82	418	751	929	986
107.5	96	497	755	947	1004
110.0	109	478	754	962	1020
112.5	122	459	754	957	1025
115.0	136	454	754	949	1014
117.5	148	447	755	940	1002
120.0	161	441	809	931	990
122.5	173	436	821	921	976
125.0	184	431	762	913	963
127.5	195	426	742	970	951
130.0	204	419	720	949	1014
132.5	212	412	696	885	975

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-2E-V-8-TW-OPEN-ITL85161.900.IES****CANDELA TABULATION - (Cont.)**

135.0	219	404	673	853	906
137.5	226	395	649	820	876
140.0	232	385	624	786	839
142.5	237	375	598	749	800
145.0	241	364	571	712	759
147.5	245	352	543	675	718
150.0	247	340	514	636	676
152.5	249	328	485	596	634
155.0	251	316	454	555	588
157.5	252	304	423	514	544
160.0	253	294	393	472	499
162.5	254	283	363	431	453
165.0	254	274	335	389	407
167.5	254	267	311	350	364
170.0	253	261	288	316	325
172.5	253	256	271	287	292
175.0	253	253	259	265	267
177.5	253	253	253	254	255
180.0	253	253	253	253	253

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-2E-V-8-TW-OPEN-ITL85161.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	151.89	N.A.	3.20
0-30	326.04	N.A.	6.80
0-40	540.33	N.A.	11.30
0-60	973.19	N.A.	20.30
0-80	1225.46	N.A.	25.60
0-90	1258.34	N.A.	26.30
10-90	1219.35	N.A.	25.50
20-40	388.44	N.A.	8.10
20-50	614.57	N.A.	12.80
40-70	591.55	N.A.	12.40
60-80	252.27	N.A.	5.30
70-80	93.58	N.A.	2.00
80-90	32.88	N.A.	0.70
90-110	1088.53	N.A.	22.80
90-120	1767.88	N.A.	37.00
90-130	2377.52	N.A.	49.70
90-150	3200.9	N.A.	66.90
90-180	3525.87	N.A.	73.70
110-180	2437.35	N.A.	50.90
0-180	4784.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.99
10-20	112.91
20-30	174.15
30-40	214.29
40-50	226.13
50-60	206.73
60-70	158.70
70-80	93.58
80-90	32.88
90-100	390.39
100-110	698.13
110-120	679.36
120-130	609.64
130-140	485.35
140-150	338.03
150-160	203.26
160-170	96.00
170-180	25.71

IES INDOOR REPORT

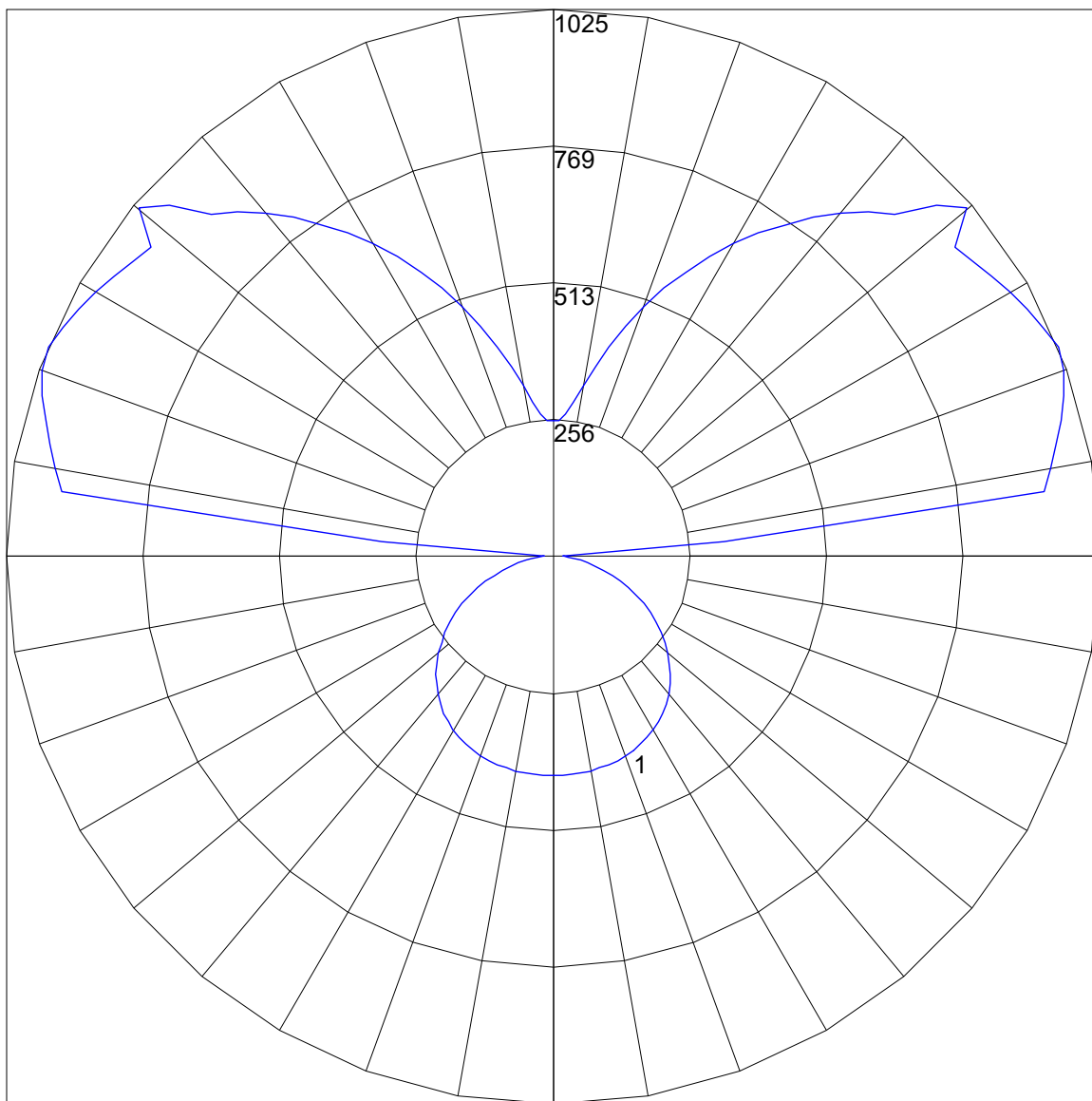
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	70	70	70	52	52	52	34	34	34	26
1	92	88	84	81	82	79	75	73	61	59	57	45	44	42	30	29	29	22
2	84	77	71	66	75	69	64	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	43	39	35	32	29	23	21	20	15
4	70	59	52	46	62	53	47	41	41	37	33	31	28	25	21	19	17	13
5	64	53	45	39	57	47	40	35	37	32	28	27	24	22	18	16	15	11
6	59	47	39	33	52	42	35	30	33	28	24	25	21	19	17	15	13	10
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	31	25	44	34	28	23	27	22	19	20	17	14	14	12	10	8
9	46	35	27	22	41	31	25	21	25	20	17	18	15	13	13	11	9	7
10	43	32	25	20	39	28	22	18	23	18	15	17	14	12	12	10	8	6

POLAR GRAPH



Maximum Candela = 1025 Located At Horizontal Angle = 90, Vertical Angle = 112.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)