

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-FTO-ITL85162.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85162.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]09/10/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE S12-LED-ID-DCO-4ft-2E-V-8-TW-FTO

[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, 40.8 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.8 WATTS

[OTHER]see www.finelite.com for source file ITL85162. 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]4391

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4391
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	40.8
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	4626	4599	4706
55	4459	4349	4454
65	4097	3892	3939
75	3446	3098	3274
85	2023	2073	2418

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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	551	551	551	551	551
2.5	550	550	550	550	550
5.0	548	548	549	549	550
7.5	545	546	547	548	548
10.0	542	541	544	546	546
12.5	538	536	541	544	543
15.0	531	529	536	539	539
17.5	524	523	530	534	535
20.0	516	514	523	529	529
22.5	506	505	515	522	523
25.0	495	495	506	514	516
27.5	483	484	495	505	507
30.0	470	471	484	495	497
32.5	456	458	472	483	486
35.0	441	443	458	470	473
37.5	425	428	442	454	458
40.0	409	411	427	439	443
42.5	391	394	409	422	426
45.0	372	375	391	403	407
47.5	353	356	371	383	388
50.0	333	337	351	363	367
52.5	312	316	329	341	346
55.0	292	295	308	319	323
57.5	270	273	284	295	299
60.0	247	250	261	270	274
62.5	224	227	237	246	249
65.0	199	204	212	220	222
67.5	177	180	187	195	197
70.0	153	155	162	170	172
72.5	129	132	137	146	149
75.0	104	108	113	123	126
77.5	81	85	91	101	103
80.0	61	63	72	80	82
82.5	41	43	53	61	63
85.0	22	27	36	44	47
87.5	6	12	22	30	32
90.0	0	6	15	24	27
92.5	20	24	35	45	48
95.0	42	51	67	78	78
97.5	66	80	101	111	115
100.0	92	112	135	155	162
102.5	120	141	179	205	215
105.0	149	176	225	260	272
107.5	179	212	274	317	332
110.0	209	250	322	376	395
112.5	239	287	374	437	458
115.0	269	325	425	495	521
117.5	297	361	475	554	580
120.0	325	396	522	610	639
122.5	353	429	567	663	694
125.0	379	459	607	711	745
127.5	402	486	642	753	790
130.0	423	508	671	788	825
132.5	442	527	694	815	854

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-2E-V-8-TW-FTO-ITL85162.900.IES****CANDELA TABULATION - (Cont.)**

135.0	459	543	711	834	875
137.5	475	556	722	845	886
140.0	488	565	726	848	889
142.5	499	571	725	843	883
145.0	508	573	718	830	869
147.5	516	574	708	813	850
150.0	522	573	694	791	824
152.5	526	571	678	765	795
155.0	531	568	662	738	765
157.5	533	564	643	708	732
160.0	535	560	624	678	700
162.5	536	555	606	650	667
165.0	537	551	590	622	637
167.5	537	547	575	598	608
170.0	537	543	562	577	584
172.5	536	540	551	560	565
175.0	535	537	543	547	548
177.5	536	537	538	539	539
180.0	536	536	536	536	536

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-LED-ID-DCO-4FT-2E-V-8-TW-FTO-ITL85162.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	203.37	N.A.	4.60
0-30	436.22	N.A.	9.90
0-40	721.95	N.A.	16.40
0-60	1296.55	N.A.	29.50
0-80	1628.05	N.A.	37.10
0-90	1669.29	N.A.	38.00
10-90	1617.06	N.A.	36.80
20-40	518.58	N.A.	11.80
20-50	819.06	N.A.	18.70
40-70	784.13	N.A.	17.90
60-80	331.50	N.A.	7.50
70-80	121.97	N.A.	2.80
80-90	41.24	N.A.	0.90
90-110	304.33	N.A.	6.90
90-120	709.17	N.A.	16.20
90-130	1229.34	N.A.	28.00
90-150	2198.73	N.A.	50.10
90-180	2721.74	N.A.	62.00
110-180	2417.41	N.A.	55.10
0-180	4391.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.23
10-20	151.14
20-30	232.85
30-40	285.74
40-50	300.48
50-60	274.11
60-70	209.53
70-80	121.97
80-90	41.24
90-100	72.82
100-110	231.51
110-120	404.84
120-130	520.17
130-140	529.47
140-150	439.92
150-160	302.97
160-170	167.68
170-180	52.36

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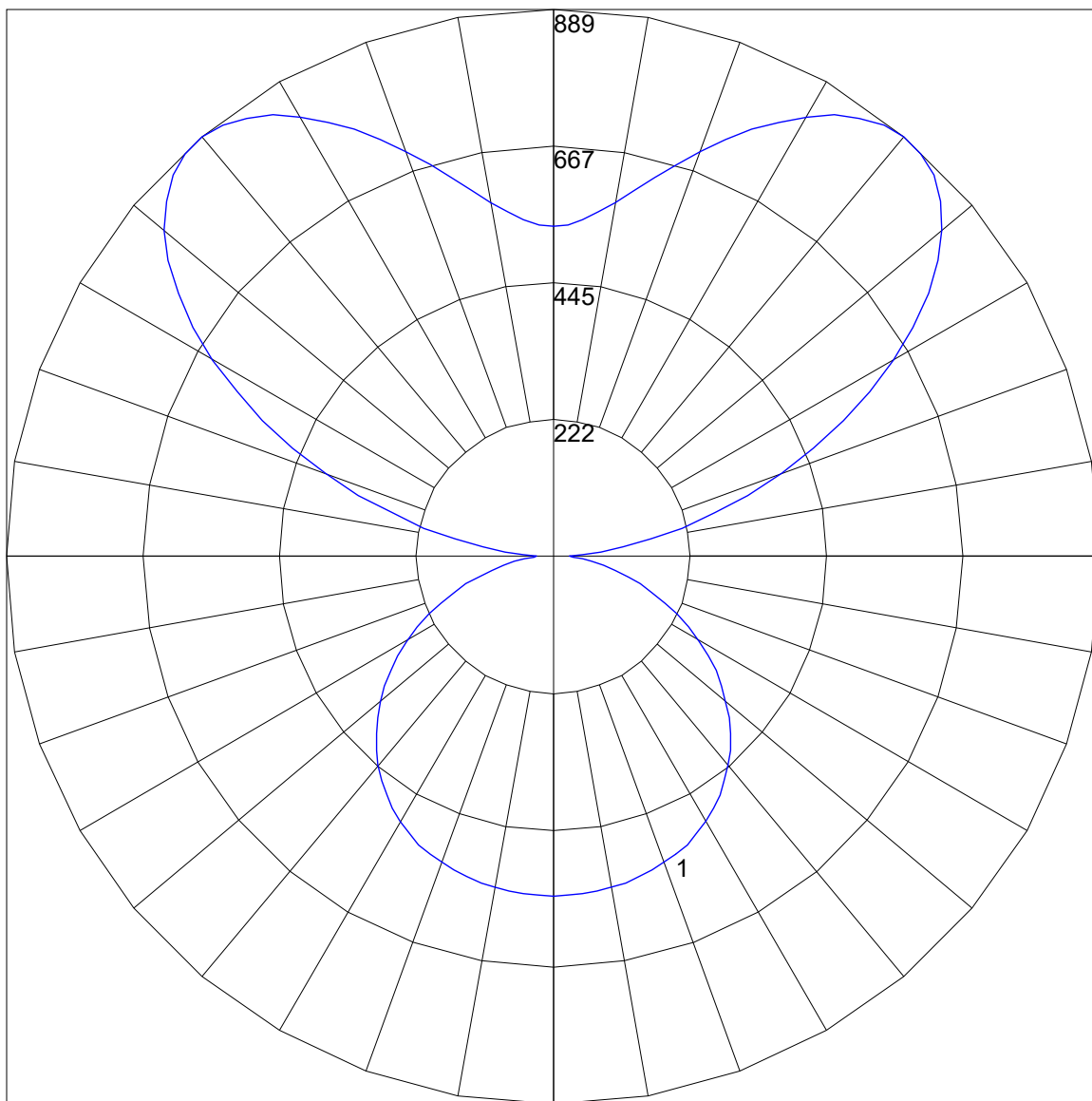
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	83	86	82	79	76	67	64	62	53	51	50	39	38	38	32
2	86	79	73	68	78	72	66	62	58	55	51	46	43	41	34	33	31	26
3	78	69	62	56	71	63	57	51	51	47	43	40	37	34	30	28	26	22
4	72	61	53	47	65	55	49	43	45	40	36	36	32	29	27	25	23	19
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	22	20	16
6	60	48	40	35	54	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	27	24	26	22	19	20	17	15	12
8	52	39	32	26	47	36	29	25	30	25	21	24	20	17	18	15	13	11
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	19	25	20	17	20	16	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 889 Located At Horizontal Angle = 90, Vertical Angle = 140
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)