

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-WM-ID-LED-DCO-4FT-2E-V-8-TW-OPEN-ITL85167.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85167.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]09/08/15

[ISSUEDATE]04/15/16

[MANUFAC]FINELITE, INC.

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

[LUMINAIRE]FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR

[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, 40.9 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 42.0 WATTS

[OTHER]see www.finelite.com for source file ITL85167. 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]4624

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4624
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	40.9
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)	0.17 ft
Luminous Width (90-270)	3.32 ft
Luminous Height	0.01 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7676	7663	7364
55	6869	6953	6875
65	5834	6059	6298
75	4258	4604	5339
85	1559	1892	3441

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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	448	448	448	448	448	448	448	448	448
2.5	453	453	451	450	447	445	443	441	441
5.0	457	456	454	450	445	441	436	434	433
7.5	459	458	455	449	442	435	429	425	423
10.0	459	458	454	446	437	428	420	415	412
12.5	458	457	451	441	431	419	410	403	400
15.0	454	452	446	435	423	410	399	391	387
17.5	449	447	440	428	416	399	387	378	373
20.0	442	440	432	420	406	387	375	365	359
22.5	433	432	424	410	396	376	362	351	345
25.0	421	420	413	399	384	363	348	336	331
27.5	410	409	401	387	372	350	334	322	317
30.0	396	395	388	375	359	337	321	308	303
32.5	382	380	374	361	344	323	306	293	288
35.0	366	365	359	347	330	309	292	279	274
37.5	350	349	343	332	315	294	277	265	260
40.0	332	332	326	316	300	280	263	251	246
42.5	314	314	309	300	284	265	249	237	232
45.0	297	296	292	283	269	250	234	223	219
47.5	279	278	275	266	253	235	220	209	205
50.0	259	259	257	249	237	220	205	195	191
52.5	240	240	239	232	221	205	191	181	178
55.0	221	220	219	214	204	189	176	167	164
57.5	202	201	201	196	189	174	162	153	150
60.0	182	182	182	179	172	159	148	139	136
62.5	163	163	163	160	155	143	133	126	123
65.0	144	143	145	142	138	128	119	112	109
67.5	125	124	126	125	121	112	104	98	95
70.0	106	106	108	107	105	97	89	85	82
72.5	87	88	90	90	88	81	76	71	68
75.0	70	70	72	73	72	67	62	57	55
77.5	53	54	56	57	57	53	48	44	42
80.0	37	38	40	41	42	39	35	32	30
82.5	23	23	26	27	28	27	23	21	21
85.0	12	12	13	15	16	15	13	13	13
87.5	5	4	5	5	6	6	5	5	6
90.0	1	1	1	0	0	1	1	2	2
92.5	1	1	1	3	11	5	6	6	6
95.0	3	4	8	227	39	24	11	11	11
97.5	16	264	479	304	83	53	29	18	17
100.0	682	644	588	360	131	76	60	41	32
102.5	714	701	624	419	183	96	90	71	63
105.0	868	808	655	470	235	117	121	102	94
107.5	875	826	697	513	285	139	142	131	124
110.0	895	855	747	553	336	168	163	159	154
112.5	921	889	796	591	384	206	182	179	178
115.0	955	932	836	628	431	244	202	199	198
117.5	996	976	872	664	477	283	223	218	218
120.0	1035	1008	894	704	521	324	244	237	236
122.5	1063	1036	915	748	565	370	270	257	255
125.0	1090	1055	936	791	607	413	305	277	274
127.5	1101	1063	956	829	648	454	344	296	293
130.0	1106	1073	973	863	686	504	388	323	313
132.5	1114	1083	989	892	722	558	428	360	340

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-WM-ID-LED-DCO-4FT-2E-V-8-TW-OPEN-ITL85167.900.IES****CANDELA TABULATION - (Cont.)**

135.0	1120	1091	1004	916	757	601	467	403	379
137.5	1124	1098	1022	939	789	639	511	446	424
140.0	1127	1102	1044	960	818	677	553	487	466
142.5	1128	1107	1068	978	847	715	594	527	508
145.0	1130	1114	1087	995	873	751	632	567	548
147.5	1134	1126	1101	1010	898	784	679	612	589
150.0	1146	1142	1110	1023	920	816	730	654	634
152.5	1158	1151	1116	1033	941	846	769	690	671
155.0	1164	1155	1119	1042	958	874	804	745	713
157.5	1165	1154	1122	1048	975	899	837	790	769
160.0	1160	1150	1122	1053	989	923	866	826	810
162.5	1154	1143	1118	1054	1001	946	894	857	844
165.0	1145	1135	1112	1056	1013	968	921	887	875
167.5	1135	1124	1101	1055	1020	986	947	917	907
170.0	1117	1110	1088	1055	1027	1002	972	948	938
172.5	1099	1091	1073	1061	1033	1012	995	979	973
175.0	1075	1071	1064	1057	1037	1024	1016	1005	1000
177.5	1065	1063	1057	1049	1040	1033	1028	1023	1020
180.0	1040	1040	1040	1040	1040	1040	1040	1040	1040

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S12-WM-ID-LED-DCO-4FT-2E-V-8-TW-OPEN-ITL85167.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	161.18	N.A.	3.50
0-30	336.20	N.A.	7.30
0-40	539.48	N.A.	11.70
0-60	919.53	N.A.	19.90
0-80	1121.00	N.A.	24.20
0-90	1138.07	N.A.	24.60
10-90	1095.84	N.A.	23.70
20-40	378.30	N.A.	8.20
20-50	581.31	N.A.	12.60
40-70	510.38	N.A.	11.00
60-80	201.47	N.A.	4.40
70-80	71.15	N.A.	1.50
80-90	17.07	N.A.	0.40
90-110	478.60	N.A.	10.40
90-120	979.69	N.A.	21.20
90-130	1545.48	N.A.	33.40
90-150	2661.23	N.A.	57.60
90-180	3486.04	N.A.	75.40
110-180	3007.44	N.A.	65.00
0-180	4624.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.23
10-20	118.95
20-30	175.02
30-40	203.28
40-50	203.01
50-60	177.04
60-70	130.33
70-80	71.15
80-90	17.07
90-100	93.23
100-110	385.37
110-120	501.09
120-130	565.78
130-140	578.27
140-150	537.48
150-160	439.90
160-170	286.06
170-180	98.86

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

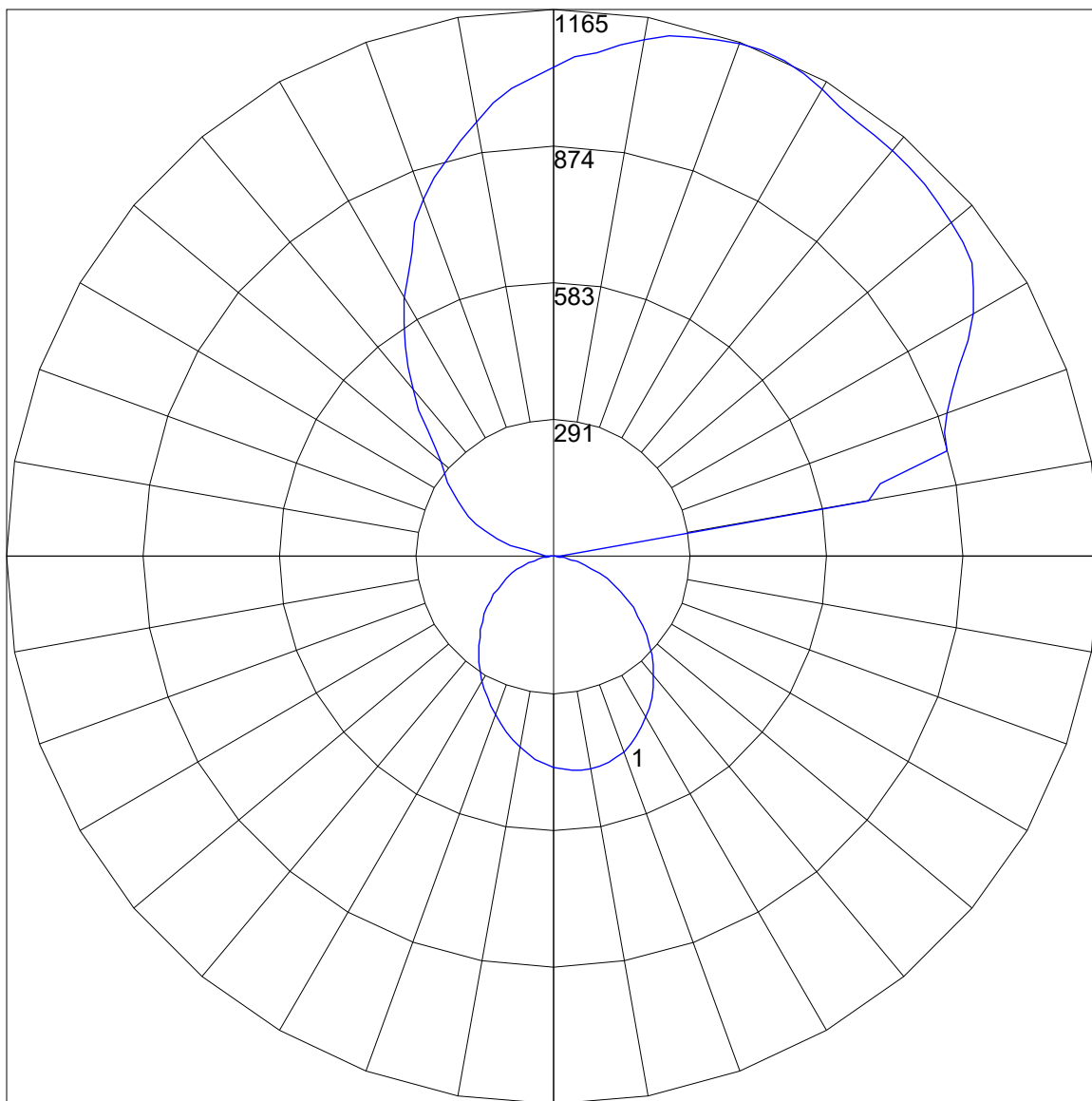
Effective Floor Cavity Reflectance 0.20

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	26	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	42	36	31	33	28	25	25	21	19	16	15	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	38	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

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POLAR GRAPH



Maximum Candela = 1165 Located At Horizontal Angle = 0, Vertical Angle = 157.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)