

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 : S16-LED-ID-DCO-4FT-3E-V-V-8TW-FTO-ITL88524.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL88524.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]10/18/16

[ISSUEDATE]01/12/17

[MANUFAC]FINELITE, INC.

[LUMCAT]S16-LED-ID-DCO-4ft-3E-V-V-8TW-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's

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 61.8 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 64.2 WATTS

[OTHER]see www.finelite.com for source file ITL88524. 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]6043

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6043
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	61.8
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
Luminous Length (0-180)	3.57 ft
Luminous Width (90-270)	0.29 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7296	7207	7088
55	6851	6741	6613
65	6265	6141	6017
75	5318	5196	5115
85	3617	3617	3496

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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	799	799	799	799	799
2.5	798	798	799	798	798
5.0	794	794	795	794	794
7.5	789	789	789	789	789
10.0	782	781	782	781	780
12.5	772	769	771	770	769
15.0	760	756	759	758	756
17.5	746	741	745	744	741
20.0	731	724	728	727	724
22.5	713	705	709	708	705
25.0	693	685	688	687	684
27.5	671	663	666	664	661
30.0	648	641	643	640	637
32.5	624	617	618	615	612
35.0	599	592	593	589	587
37.5	573	566	567	563	560
40.0	547	540	540	536	533
42.5	519	514	513	508	505
45.0	491	486	485	480	477
47.5	462	458	456	451	448
50.0	433	429	427	421	419
52.5	404	399	398	392	390
55.0	374	370	368	362	361
57.5	344	340	338	332	331
60.0	314	310	308	302	301
62.5	283	280	277	272	272
65.0	252	250	247	242	242
67.5	221	219	216	213	212
70.0	190	189	186	183	183
72.5	160	159	157	155	154
75.0	131	130	128	126	126
77.5	102	103	100	100	99
80.0	76	76	75	74	73
82.5	51	52	52	51	50
85.0	30	30	30	29	29
87.5	10	10	11	10	9
90.0	0	0	0	0	0
92.5	27	28	24	26	26
95.0	59	63	65	61	58
97.5	95	103	116	115	113
100.0	135	145	162	172	172
102.5	178	191	218	231	235
105.0	223	240	278	297	303
107.5	270	292	340	367	375
110.0	318	346	406	438	450
112.5	366	400	471	512	529
115.0	415	455	538	588	607
117.5	464	511	606	664	686
120.0	512	566	672	738	764
122.5	560	620	737	811	839
125.0	606	671	798	880	911
127.5	651	721	855	946	978
130.0	695	768	909	1005	1040
132.5	737	811	956	1057	1094

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-3E-V-V-8TW-FTO-ITL88524.900.IES****CANDELA TABULATION - (Cont.)**

135.0	778	851	998	1102	1140
137.5	816	886	1035	1140	1176
140.0	852	919	1065	1169	1206
142.5	885	949	1090	1193	1227
145.0	916	974	1108	1207	1241
147.5	945	997	1122	1216	1247
150.0	970	1016	1131	1218	1247
152.5	993	1033	1135	1215	1242
155.0	1013	1046	1137	1208	1232
157.5	1030	1058	1137	1197	1219
160.0	1046	1067	1134	1185	1203
162.5	1059	1075	1129	1170	1186
165.0	1070	1080	1123	1154	1168
167.5	1079	1086	1116	1141	1151
170.0	1087	1091	1110	1127	1135
172.5	1092	1095	1105	1115	1120
175.0	1096	1098	1101	1106	1108
177.5	1099	1099	1100	1101	1102
180.0	1099	1099	1099	1099	1099

IES INDOOR REPORT**PHOTOMETRIC FILENAME : S16-LED-ID-DCO-4FT-3E-V-V-8TW-FTO-ITL88524.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	289.02	N.A.	4.80
0-30	605.36	N.A.	10.00
0-40	975.48	N.A.	16.10
0-60	1676.42	N.A.	27.70
0-80	2056.45	N.A.	34.00
0-90	2091.41	N.A.	34.60
10-90	2015.99	N.A.	33.40
20-40	686.46	N.A.	11.40
20-50	1059.49	N.A.	17.50
40-70	944.80	N.A.	15.60
60-80	380.03	N.A.	6.30
70-80	136.17	N.A.	2.30
80-90	34.96	N.A.	0.60
90-110	361.88	N.A.	6.00
90-120	879.65	N.A.	14.60
90-130	1572.56	N.A.	26.00
90-150	3007.47	N.A.	49.80
90-180	3951.65	N.A.	65.40
110-180	3589.77	N.A.	59.40
0-180	6043.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.42
10-20	213.60
20-30	316.34
30-40	370.12
40-50	373.03
50-60	327.92
60-70	243.85
70-80	136.17
80-90	34.96
90-100	75.22
100-110	286.66
110-120	517.77
120-130	692.92
130-140	752.07
140-150	682.84
150-160	521.26
160-170	317.49
170-180	105.43

IES INDOOR REPORT

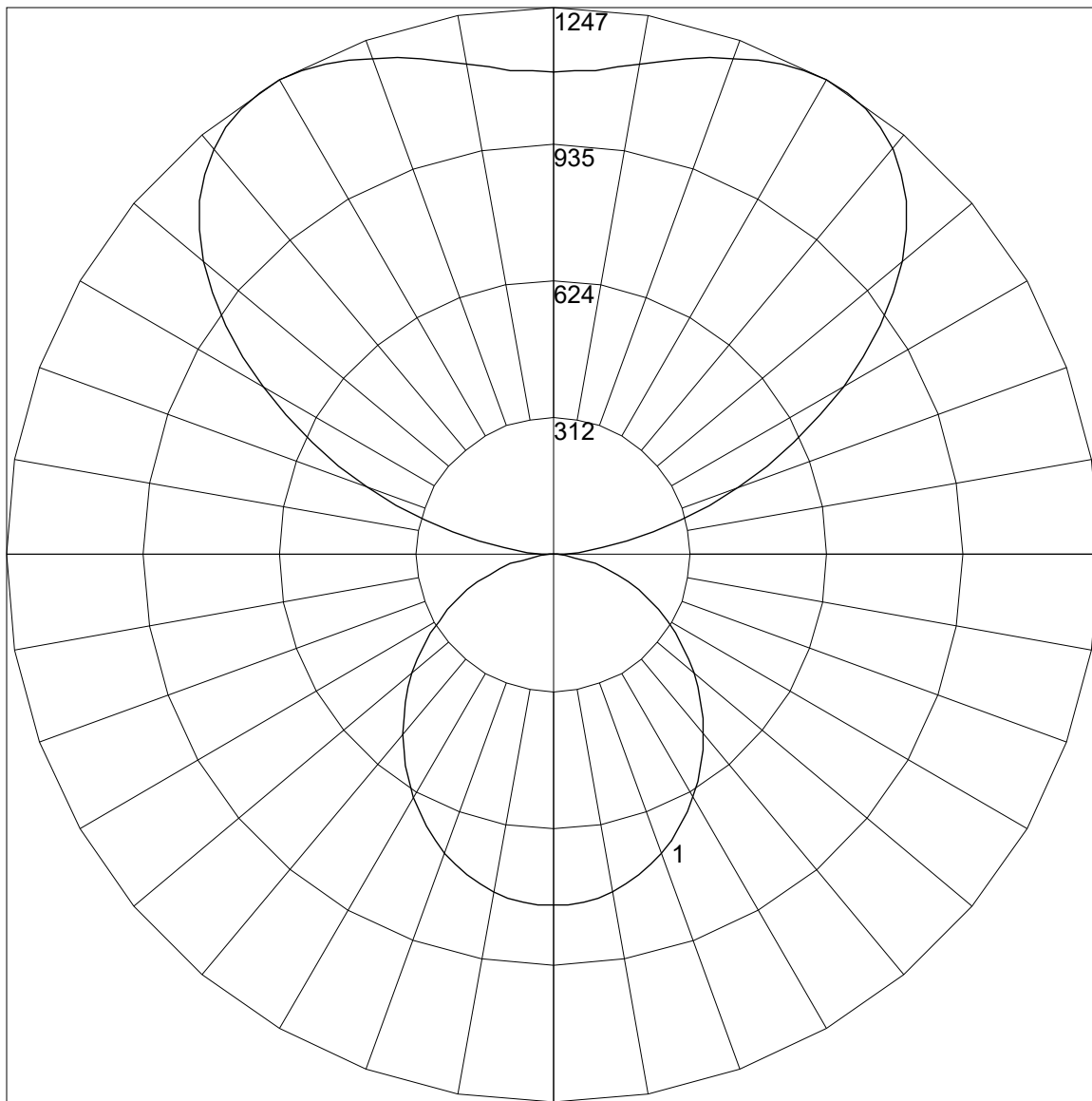
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	103	93	93	93	93	75	75	75	58	58	58	42	42	42	35
1	94	90	86	83	85	82	78	75	65	63	61	51	49	48	37	36	35	29
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	33	31	30	24
3	78	69	62	56	70	63	56	52	50	46	42	39	36	34	29	27	25	21
4	72	61	53	47	64	55	49	44	45	40	36	35	32	29	26	24	22	18
5	66	54	46	41	59	49	42	37	40	35	31	31	28	25	23	21	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17	13
7	56	44	36	31	50	40	33	28	32	27	24	26	22	19	19	17	15	12
8	52	40	32	27	47	36	29	25	30	25	21	23	20	17	18	15	13	11
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	13	11	9

POLAR GRAPH



Maximum Candela = 1247 Located At Horizontal Angle = 90, Vertical Angle = 147.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)