

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 : E2-ID-L-4FT-S-H-835-ITL89277.005.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89277.005 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]05/02/17
[ISSUEDATE]05/19/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE E2-ID-L-4ft-S-H-835
[OTHER]INPUT_ELECTRICAL: 120.0 VOLTS, 22.1 WATTS
[OTHER]INPUT_ELECTRICAL: 277.0 VOLTS, 24.9 WATTS
[ABSOLUTE]LUMENS]2041
[OTHER]see www.finelite.com for source file ITL89277. 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2041
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	22.1
Ballast Factor	1.00
CIE Type	General Diffuse
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)	4.06 ft
Luminous Width (90-270)	0.08 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11600	11530	11425
55	11070	10941	10898
65	10464	10230	10230
75	9737	9450	9546
85	8221	8221	8504

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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	404.436	404.436	404.436	404.436	404.436
2.5	404.436	404.436	404.436	404.436	404.436
5.0	402.880	402.880	402.880	402.880	402.880
7.5	399.769	399.769	399.769	399.769	398.992
10.0	396.658	395.881	396.658	396.658	396.658
12.5	391.992	391.214	391.992	392.770	391.992
15.0	386.548	384.214	386.548	386.548	386.548
17.5	380.325	377.214	380.325	380.325	379.548
20.0	373.326	369.437	373.326	372.548	370.992
22.5	364.770	360.881	363.992	363.992	363.215
25.0	355.437	351.548	354.659	353.882	353.104
27.5	345.326	341.437	344.548	343.771	342.215
30.0	334.437	330.549	333.660	332.104	331.326
32.5	322.771	319.660	321.993	321.216	319.660
35.0	311.105	307.216	309.549	308.771	307.994
37.5	298.661	295.549	297.105	296.327	295.549
40.0	285.438	282.327	283.883	283.105	282.327
42.5	271.439	269.106	269.883	269.106	268.328
45.0	258.217	255.106	256.661	255.106	254.328
47.5	244.217	241.106	241.884	241.106	240.328
50.0	229.440	227.106	227.884	226.329	226.329
52.5	215.440	212.329	213.107	211.551	211.551
55.0	199.885	197.551	197.551	196.774	196.774
57.5	185.107	182.774	181.996	181.218	181.218
60.0	170.330	167.219	167.219	166.441	166.441
62.5	154.774	152.441	151.664	150.886	151.664
65.0	139.219	136.886	136.108	136.108	136.108
67.5	124.442	122.109	121.331	121.331	121.331
70.0	108.887	106.553	106.553	105.776	106.553
72.5	94.109	91.776	91.776	91.776	92.554
75.0	79.332	77.776	76.998	76.998	77.776
77.5	65.332	62.999	62.999	63.776	63.776
80.0	50.554	48.999	48.999	49.777	50.554
82.5	36.555	34.999	35.777	36.555	36.555
85.0	22.555	21.777	22.555	22.555	23.333
87.5	8.555	8.555	9.333	10.111	10.111
90.0	0.000	0.000	0.000	0.000	0.000
92.5	2.865	2.456	1.637	1.228	1.228
95.0	8.187	7.368	5.731	4.503	4.503
97.5	15.555	13.508	10.643	8.596	8.596
100.0	24.151	20.467	15.964	13.099	12.690
102.5	34.385	28.244	21.695	17.602	16.783
105.0	46.665	38.069	28.654	22.923	21.286
107.5	60.992	49.530	36.022	28.654	26.198
110.0	76.956	63.447	44.618	35.203	31.928
112.5	94.967	79.412	54.851	42.571	38.478
115.0	113.796	96.604	67.541	50.758	46.255
117.5	133.854	115.433	82.686	60.992	54.442
120.0	153.911	134.263	102.744	72.862	64.675
122.5	173.969	154.321	127.304	87.599	77.365
125.0	192.799	174.378	154.321	108.475	93.739
127.5	211.628	195.255	180.109	135.900	116.252
130.0	230.048	215.721	202.213	169.057	146.134
132.5	247.650	234.960	220.634	202.623	182.565

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CANDELA TABULATION - (Cont.)

135.0	263.614	252.971	237.007	232.095	218.996
137.5	277.532	269.754	252.971	252.971	248.469
140.0	291.449	284.900	269.754	266.889	267.708
142.5	304.139	298.408	286.537	278.350	279.578
145.0	316.010	310.688	302.911	291.449	289.812
147.5	326.652	321.331	317.647	305.367	301.683
150.0	336.476	331.564	330.746	320.103	315.600
152.5	345.073	340.570	341.798	334.020	329.927
155.0	352.850	348.347	350.803	345.891	342.617
157.5	359.809	355.715	358.171	356.125	353.259
160.0	365.949	362.265	364.312	363.902	362.265
162.5	371.270	367.996	370.042	369.224	368.814
165.0	375.773	373.317	374.954	374.136	373.317
167.5	379.048	377.410	378.638	378.638	377.410
170.0	381.913	381.094	381.913	381.913	381.504
172.5	383.960	383.550	383.960	383.960	384.369
175.0	386.007	385.597	385.597	385.597	385.597
177.5	386.825	386.416	386.416	386.416	386.416
180.0	387.235	387.235	387.235	387.235	387.235

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	147.12	N.A.	7.20
0-30	310.01	N.A.	15.20
0-40	503.22	N.A.	24.70
0-60	877.16	N.A.	43.00
0-80	1094.83	N.A.	53.60
0-90	1120.00	N.A.	54.90
10-90	1081.77	N.A.	53.00
20-40	356.10	N.A.	17.40
20-50	553.42	N.A.	27.10
40-70	509.45	N.A.	25.00
60-80	217.67	N.A.	10.70
70-80	82.15	N.A.	4.00
80-90	25.18	N.A.	1.20
90-110	40.91	N.A.	2.00
90-120	115.02	N.A.	5.60
90-130	245.89	N.A.	12.00
90-150	618.47	N.A.	30.30
90-180	921.00	N.A.	45.10
110-180	880.09	N.A.	43.10
0-180	2041.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.23
10-20	108.89
20-30	162.89
30-40	193.22
40-50	197.31
50-60	176.62
60-70	135.52
70-80	82.15
80-90	25.18
90-100	7.49
100-110	33.42
110-120	74.11
120-130	130.87
130-140	183.72
140-150	188.86
150-160	160.20
160-170	105.65
170-180	36.68

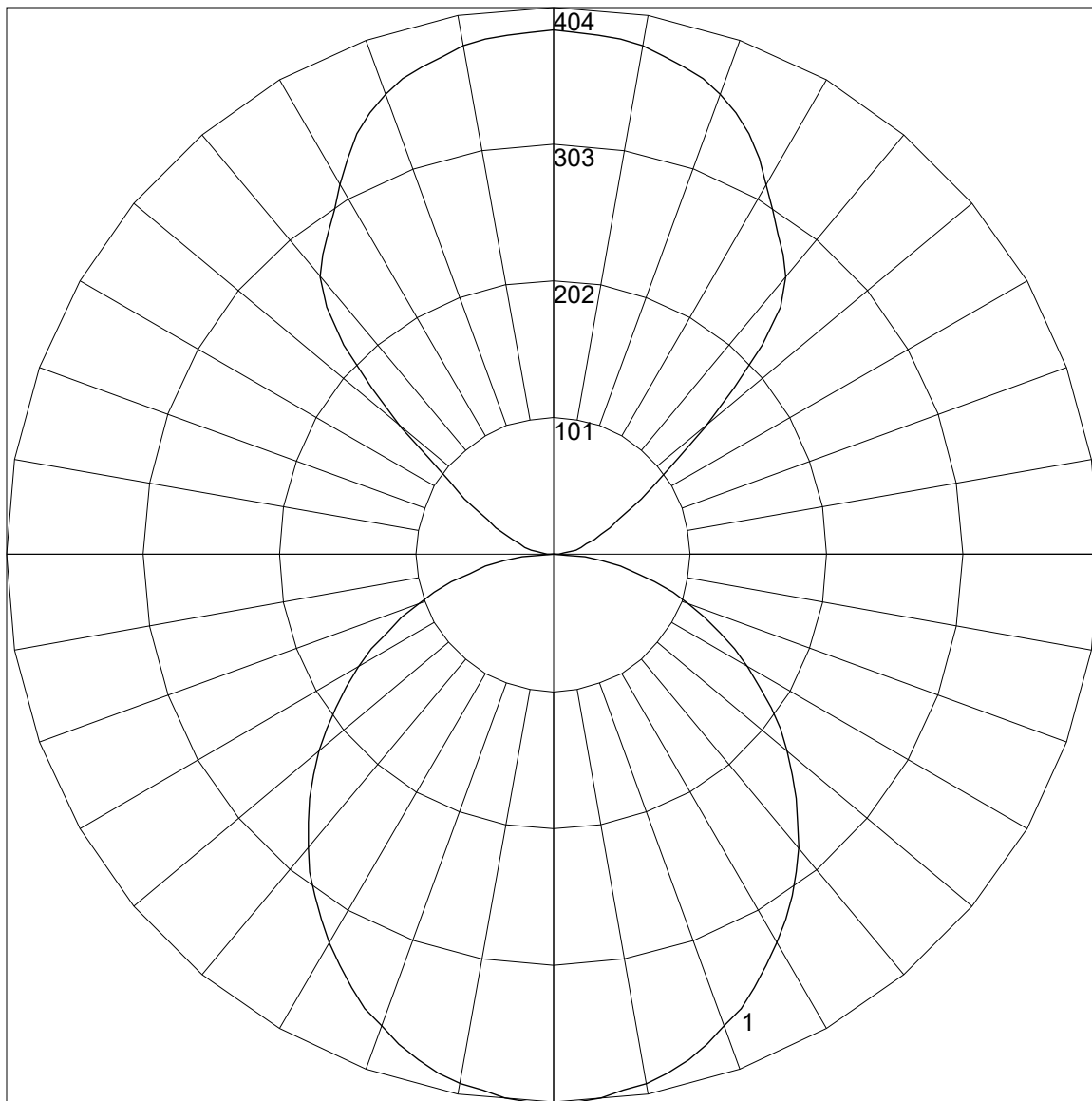
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	94	90	87	91	88	84	81	75	73	70	64	62	60	53	52	51	46
2	90	82	76	70	83	76	71	66	66	61	58	56	53	50	47	44	42	38
3	82	72	64	58	75	67	60	55	58	53	48	49	45	42	41	38	36	32
4	75	64	56	49	69	59	52	47	51	46	41	44	39	36	37	33	31	27
5	69	57	48	42	63	53	45	40	46	40	35	39	35	31	33	30	27	24
6	63	51	43	37	58	47	40	35	41	35	31	35	31	27	30	26	24	21
7	58	46	38	32	54	43	36	30	37	31	27	32	27	24	27	24	21	18
8	54	42	34	28	50	39	32	27	34	28	24	29	25	21	25	21	19	16
9	50	38	30	25	47	36	29	24	31	26	22	27	22	19	23	19	17	15
10	47	35	28	23	44	33	26	22	29	23	19	25	21	17	21	18	15	13

POLAR GRAPH



Maximum Candela = 404.436 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)