

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-B-H-835-ITL89277.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89277.008 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-B-H-835
[OTHER]INPUT_ELECTRICAL: 120.0 VOLTS, 24.0 WATTS
[OTHER]INPUT_ELECTRICAL: 277.0 VOLTS, 26.9 WATTS
[ABSOLUTE]LUMENS]2278
[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	2278
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	24
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	402.881	402.881	402.881	402.881	402.881
7.5	399.769	399.769	399.769	399.769	398.992
10.0	396.659	395.881	396.659	396.659	396.659
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	380.326	377.214	380.326	380.326	379.548
20.0	373.326	369.437	373.326	372.548	370.992
22.5	364.770	360.882	363.993	363.993	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	334.438	330.549	333.660	332.104	331.327
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	197.552	197.552	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	154.775	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	3.603	3.088	2.059	1.544	1.544
95.0	10.293	9.264	7.205	5.661	5.661
97.5	19.558	16.984	13.382	10.808	10.808
100.0	30.366	25.734	20.072	16.470	15.955
102.5	43.233	35.513	27.278	22.131	21.102
105.0	58.673	47.865	36.027	28.822	26.763
107.5	76.686	62.276	45.291	36.027	32.939
110.0	96.759	79.774	56.099	44.262	40.145
112.5	119.404	99.847	68.966	53.526	48.379
115.0	143.079	121.463	84.921	63.819	58.158
117.5	168.298	145.138	103.964	76.686	68.452
120.0	193.517	168.813	129.183	91.612	81.318
122.5	218.736	194.032	160.064	110.140	97.273
125.0	242.411	219.251	194.032	136.388	117.860
127.5	266.086	245.499	226.456	170.872	146.167
130.0	289.247	271.233	254.249	212.560	183.738
132.5	311.377	295.423	277.409	254.763	229.544

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CANDELA TABULATION - (Cont.)

135.0	331.450	318.068	297.996	291.820	275.350
137.5	348.949	339.170	318.068	318.068	312.407
140.0	366.447	358.213	339.170	335.567	336.596
142.5	382.402	375.197	360.272	349.978	351.522
145.0	397.328	390.637	380.858	366.447	364.389
147.5	410.709	404.019	399.387	383.946	379.314
150.0	423.062	416.886	415.856	402.475	396.813
152.5	433.870	428.208	429.752	419.974	414.827
155.0	443.649	437.987	441.075	434.899	430.782
157.5	452.398	447.251	450.339	447.766	444.163
160.0	460.118	455.486	458.059	457.545	455.486
162.5	466.809	462.692	465.265	464.236	463.721
165.0	472.470	469.382	471.441	470.412	469.382
167.5	476.588	474.529	476.073	476.073	474.529
170.0	480.190	479.161	480.190	480.190	479.676
172.5	482.764	482.249	482.764	482.764	483.278
175.0	485.337	484.822	484.822	484.822	484.822
177.5	486.366	485.852	485.852	485.852	485.852
180.0	486.881	486.881	486.881	486.881	486.881

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	147.12	N.A.	6.50
0-30	310.01	N.A.	13.60
0-40	503.22	N.A.	22.10
0-60	877.16	N.A.	38.50
0-80	1094.83	N.A.	48.10
0-90	1120.00	N.A.	49.20
10-90	1081.77	N.A.	47.50
20-40	356.10	N.A.	15.60
20-50	553.42	N.A.	24.30
40-70	509.45	N.A.	22.40
60-80	217.67	N.A.	9.60
70-80	82.15	N.A.	3.60
80-90	25.18	N.A.	1.10
90-110	51.43	N.A.	2.30
90-120	144.61	N.A.	6.30
90-130	309.16	N.A.	13.60
90-150	777.62	N.A.	34.10
90-180	1158.00	N.A.	50.80
110-180	1106.56	N.A.	48.60
0-180	2278.00	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	9.41
100-110	42.02
110-120	93.18
120-130	164.55
130-140	231.00
140-150	237.46
150-160	201.42
160-170	132.83
170-180	46.12

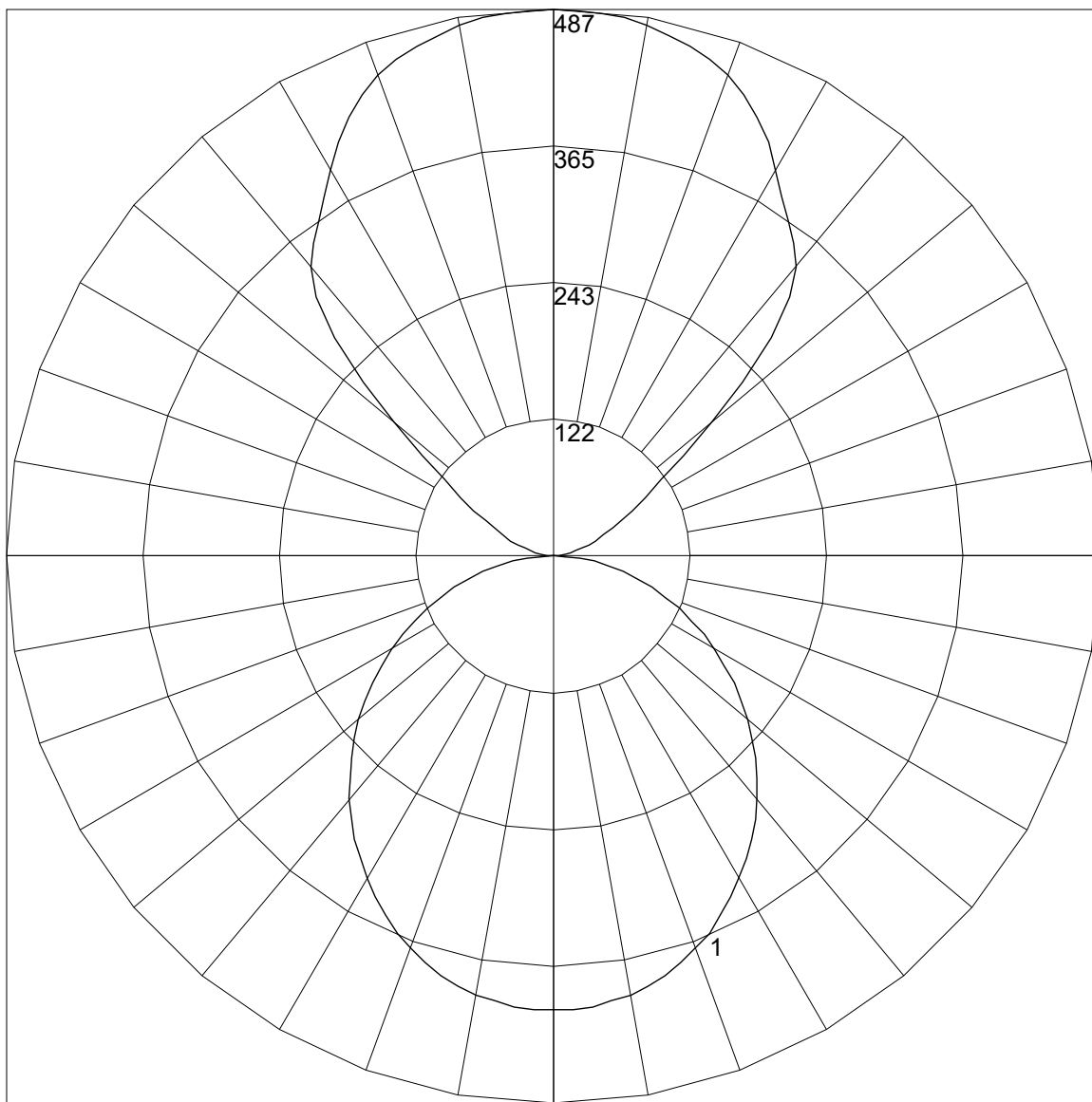
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	97	93	89	85	90	86	82	79	72	70	68	60	58	57	49	47	46	41
2	89	81	75	70	81	75	69	65	63	59	56	52	50	47	43	41	39	34
3	81	71	64	58	74	66	59	54	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	31	28	24
5	68	56	48	42	62	52	45	39	44	38	34	37	33	29	30	27	24	21
6	62	50	42	36	57	46	39	34	40	34	30	33	29	26	27	24	21	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	16
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	24	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	28	22	19	23	19	16	20	16	14	12

POLAR GRAPH



Maximum Candela = 486.881 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)