

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-V-835-ITL89277.009.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89277.009 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-V-835
[OTHER]INPUT_ELECTRICAL: 120.0 VOLTS, 28.2 WATTS
[OTHER]INPUT_ELECTRICAL: 277.0 VOLTS, 30.1 WATTS
[ABSOLUTE]LUMENS]2598
[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	2598
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	28.2
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	14914	14824	14689
55	14233	14067	14011
65	13454	13153	13153
75	12518	12150	12273
85	10569	10569	10934

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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	519.989	519.989	519.989	519.989	519.989
2.5	519.989	519.989	519.989	519.989	519.989
5.0	517.989	517.989	517.989	517.989	517.989
7.5	513.989	513.989	513.989	513.989	512.989
10.0	509.990	508.989	509.990	509.990	509.990
12.5	503.990	502.990	503.990	504.990	503.990
15.0	496.990	493.990	496.990	496.990	496.990
17.5	488.990	484.990	488.990	488.990	487.990
20.0	479.990	474.990	479.990	478.990	476.990
22.5	468.990	463.990	467.990	467.990	466.990
25.0	456.991	451.990	455.991	454.990	453.991
27.5	443.991	438.991	442.991	441.991	439.991
30.0	429.991	424.991	428.991	426.991	425.991
32.5	414.991	410.992	413.991	412.991	410.992
35.0	399.992	394.992	397.992	396.992	395.992
37.5	383.992	379.992	381.992	380.992	379.992
40.0	366.992	362.993	364.993	363.993	362.993
42.5	348.993	345.993	346.993	345.993	344.993
45.0	331.993	327.993	329.993	327.993	326.993
47.5	313.993	309.994	310.994	309.994	308.994
50.0	294.994	291.994	292.994	290.994	290.994
52.5	276.994	272.994	273.994	271.994	271.994
55.0	256.995	253.995	253.995	252.995	252.995
57.5	237.995	234.995	233.995	232.995	232.995
60.0	218.995	214.995	214.995	213.996	213.996
62.5	198.996	195.996	194.996	193.996	194.996
65.0	178.996	175.996	174.996	174.996	174.996
67.5	159.997	156.997	155.997	155.997	155.997
70.0	139.997	136.997	136.997	135.997	136.997
72.5	120.998	117.998	117.998	117.998	118.998
75.0	101.998	99.998	98.998	98.998	99.998
77.5	83.998	80.998	80.998	81.998	81.998
80.0	64.999	62.999	62.999	63.999	64.999
82.5	46.999	44.999	45.999	46.999	46.999
85.0	28.999	28.000	28.999	28.999	29.999
87.5	11.000	11.000	12.000	13.000	13.000
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	189.15	N.A.	7.30
0-30	398.58	N.A.	15.30
0-40	647.00	N.A.	24.90
0-60	1127.78	N.A.	43.40
0-80	1407.63	N.A.	54.20
0-90	1440.01	N.A.	55.40
10-90	1390.85	N.A.	53.50
20-40	457.85	N.A.	17.60
20-50	711.54	N.A.	27.40
40-70	655.01	N.A.	25.20
60-80	279.86	N.A.	10.80
70-80	105.62	N.A.	4.10
80-90	32.37	N.A.	1.20
90-110	51.43	N.A.	2.00
90-120	144.61	N.A.	5.60
90-130	309.16	N.A.	11.90
90-150	777.62	N.A.	29.90
90-180	1158.00	N.A.	44.60
110-180	1106.56	N.A.	42.60
0-180	2598.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.16
10-20	140.00
20-30	209.43
30-40	248.42
40-50	253.69
50-60	227.08
60-70	174.24
70-80	105.62
80-90	32.37
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

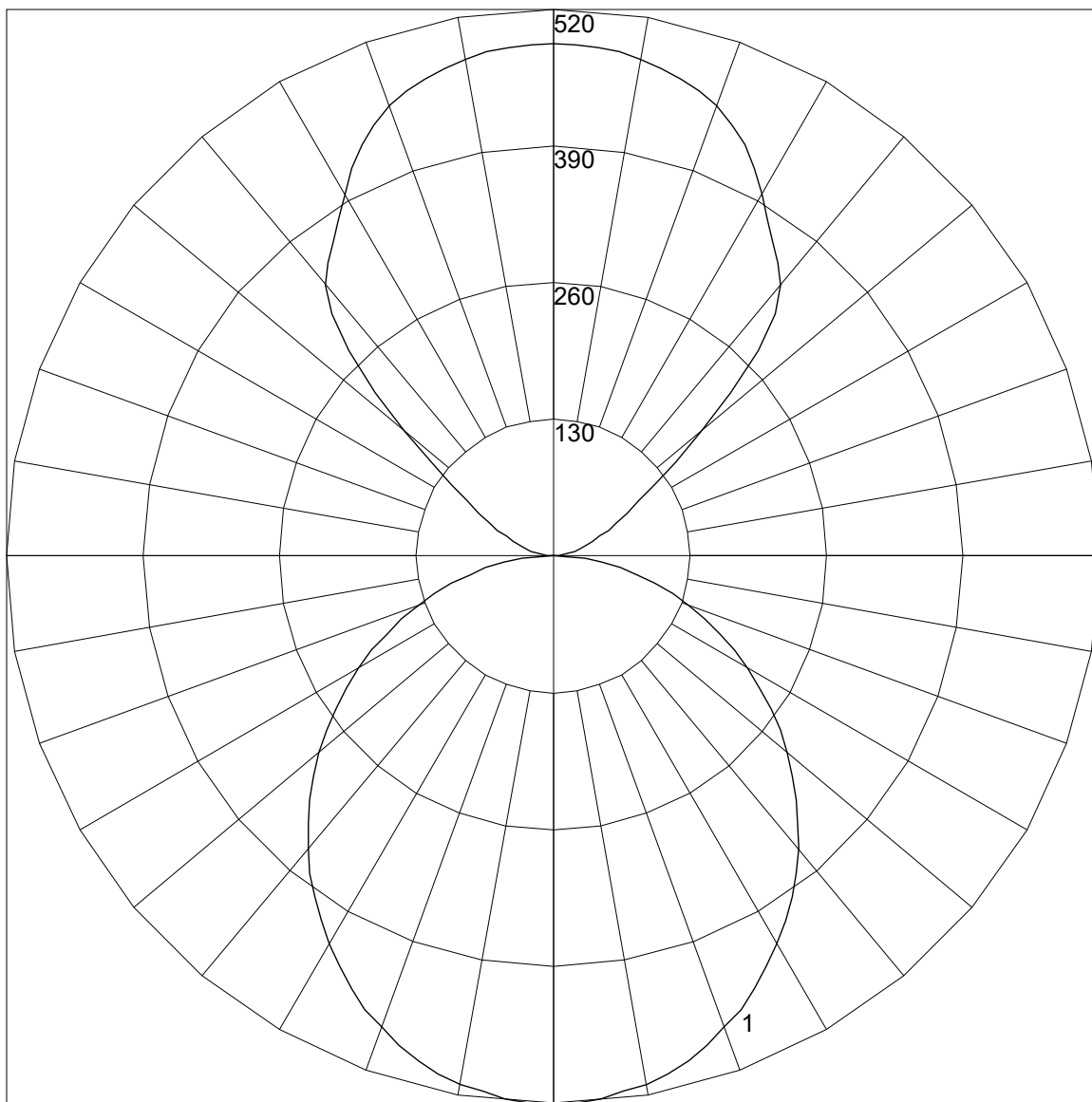
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	94	90	87	92	88	84	81	75	73	70	64	62	60	54	52	51	46
2	90	82	76	71	83	76	71	66	66	62	58	56	53	50	47	45	43	38
3	82	72	65	59	76	67	61	55	58	53	49	49	46	42	41	39	36	32
4	75	64	56	49	69	59	52	47	51	46	41	44	40	36	37	34	31	28
5	69	57	48	42	63	53	46	40	46	40	36	39	35	31	33	30	27	24
6	63	51	43	37	58	48	40	35	41	35	31	36	31	27	30	27	24	21
7	58	46	38	32	54	43	36	30	37	32	27	32	28	24	27	24	21	18
8	54	42	34	28	50	39	32	27	34	28	24	30	25	22	25	22	19	16
9	50	38	30	25	47	36	29	24	31	26	22	27	23	19	23	20	17	15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	17	22	18	15	13

POLAR GRAPH



Maximum Candela = 519.989 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)