

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 : S19-P-ID-4FT-2E-S-835-OPEN-ITL93789.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL93789.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]09/29/20

[ISSUEDATE]10/19/20

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE S19-P-ID-4ft-2E-S-835-OPEN

[_INPUT_ELECTRICAL]120.0 VOLTS, 13.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 14.5 WATTS

[_ABSOLUTE]LUMENS]1908

[OTHER]see www.finelite.com for source file ITL93789. 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	1908
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	13.5
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)	3.83 ft
Luminous Width (90-270)	0.26 ft
Luminous Height	0.05 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1649	1680	1825
55	1652	1657	1824
65	1602	1553	1738
75	1476	1351	1542
85	1358	1188	1509

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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	144.533	144.533	144.533	144.533	144.533
2.5	144.124	144.533	144.533	144.533	144.533
5.0	144.124	144.533	144.533	144.943	144.943
7.5	143.714	144.124	144.533	145.352	145.761
10.0	142.895	143.714	144.943	146.171	146.171
12.5	142.076	142.895	145.352	146.990	146.990
15.0	141.258	142.076	145.352	147.809	148.218
17.5	140.029	141.258	145.352	148.627	149.037
20.0	138.801	140.439	145.352	149.446	149.856
22.5	137.163	139.210	144.943	149.856	151.084
25.0	135.525	137.573	144.533	150.265	151.903
27.5	133.069	135.935	143.305	150.265	152.312
30.0	131.021	133.888	142.486	149.856	152.722
32.5	128.155	131.431	140.848	149.446	152.312
35.0	125.289	128.974	138.801	148.627	151.903
37.5	121.604	125.699	136.754	146.990	150.675
40.0	117.919	122.423	133.888	144.533	149.037
42.5	114.234	118.738	130.612	142.076	146.580
45.0	109.730	114.644	126.927	138.801	143.714
47.5	105.227	110.140	122.423	135.116	139.620
50.0	100.313	105.227	117.919	130.612	135.525
52.5	95.400	100.313	112.597	125.289	130.203
55.0	89.668	94.581	107.274	119.557	124.880
57.5	83.936	88.849	101.132	113.825	118.738
60.0	77.794	82.707	94.581	106.864	112.187
62.5	71.243	76.156	87.621	99.904	104.817
65.0	64.692	69.605	80.660	92.124	97.447
67.5	58.141	62.645	73.290	84.345	89.668
70.0	51.180	55.275	65.920	76.566	81.888
72.5	44.220	48.314	58.141	68.377	73.290
75.0	37.259	41.354	50.771	60.597	64.692
77.5	30.708	34.393	43.401	52.409	56.503
80.0	24.157	28.252	36.031	45.448	49.952
82.5	18.015	21.700	29.889	40.125	44.629
85.0	12.693	15.559	26.204	36.031	40.125
87.5	7.370	12.693	23.748	33.984	38.078
90.0	3.276	15.559	28.252	38.488	42.991
92.5	8.598	99.085	63.873	61.007	63.054
95.0	15.968	118.738	217.004	191.209	180.973
97.5	22.929	129.384	240.343	287.428	298.074
100.0	30.299	142.076	244.437	305.034	322.640
102.5	37.259	152.722	252.216	308.310	327.554
105.0	44.220	161.320	260.815	313.223	330.010
107.5	51.180	167.462	269.003	319.774	335.743
110.0	57.731	171.966	276.783	325.916	340.656
112.5	63.873	174.832	282.515	332.467	346.388
115.0	70.015	176.470	286.609	337.790	352.120
117.5	75.337	176.879	288.247	341.475	356.215
120.0	80.660	177.288	288.247	343.522	359.081
122.5	85.164	177.288	286.609	343.522	359.900
125.0	90.077	176.470	283.743	341.475	359.081
127.5	94.172	175.651	279.649	337.790	355.396
130.0	97.857	174.422	274.736	332.467	350.892
132.5	101.542	172.785	269.003	325.916	344.750

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CANDELA TABULATION - (Cont.)

135.0	104.408	171.147	262.862	318.546	337.380
137.5	107.683	168.690	255.901	309.948	327.963
140.0	109.730	166.233	248.122	300.530	318.137
142.5	111.778	163.367	239.933	290.294	307.082
145.0	113.825	160.501	231.335	278.830	294.798
147.5	115.463	158.045	222.327	266.956	281.696
150.0	116.691	154.769	212.500	255.082	269.003
152.5	117.919	151.494	203.083	241.571	254.673
155.0	118.738	148.627	193.257	228.059	239.933
157.5	119.557	145.761	183.430	214.138	224.784
160.0	119.967	142.486	174.013	200.627	209.634
162.5	120.376	138.391	165.415	186.296	194.894
165.0	120.785	135.116	156.816	173.603	180.155
167.5	120.785	131.840	149.037	161.730	166.233
170.0	120.785	128.974	141.258	151.084	154.360
172.5	120.785	126.108	133.888	140.439	143.305
175.0	121.195	123.652	128.155	131.431	133.069
177.5	120.785	121.604	123.242	124.470	124.880
180.0	121.195	121.195	121.195	121.195	121.195

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	54.90	N.A.	2.90
0-30	121.40	N.A.	6.40
0-40	208.22	N.A.	10.90
0-60	401.62	N.A.	21.10
0-80	535.42	N.A.	28.10
0-90	565.85	N.A.	29.70
10-90	552.04	N.A.	28.90
20-40	153.32	N.A.	8.00
20-50	251.03	N.A.	13.20
40-70	273.32	N.A.	14.30
60-80	133.80	N.A.	7.00
70-80	53.88	N.A.	2.80
80-90	30.43	N.A.	1.60
90-110	392.82	N.A.	20.60
90-120	642.79	N.A.	33.70
90-130	872.27	N.A.	45.70
90-150	1198.08	N.A.	62.80
90-180	1341.96	N.A.	70.30
110-180	949.14	N.A.	49.80
0-180	1907.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

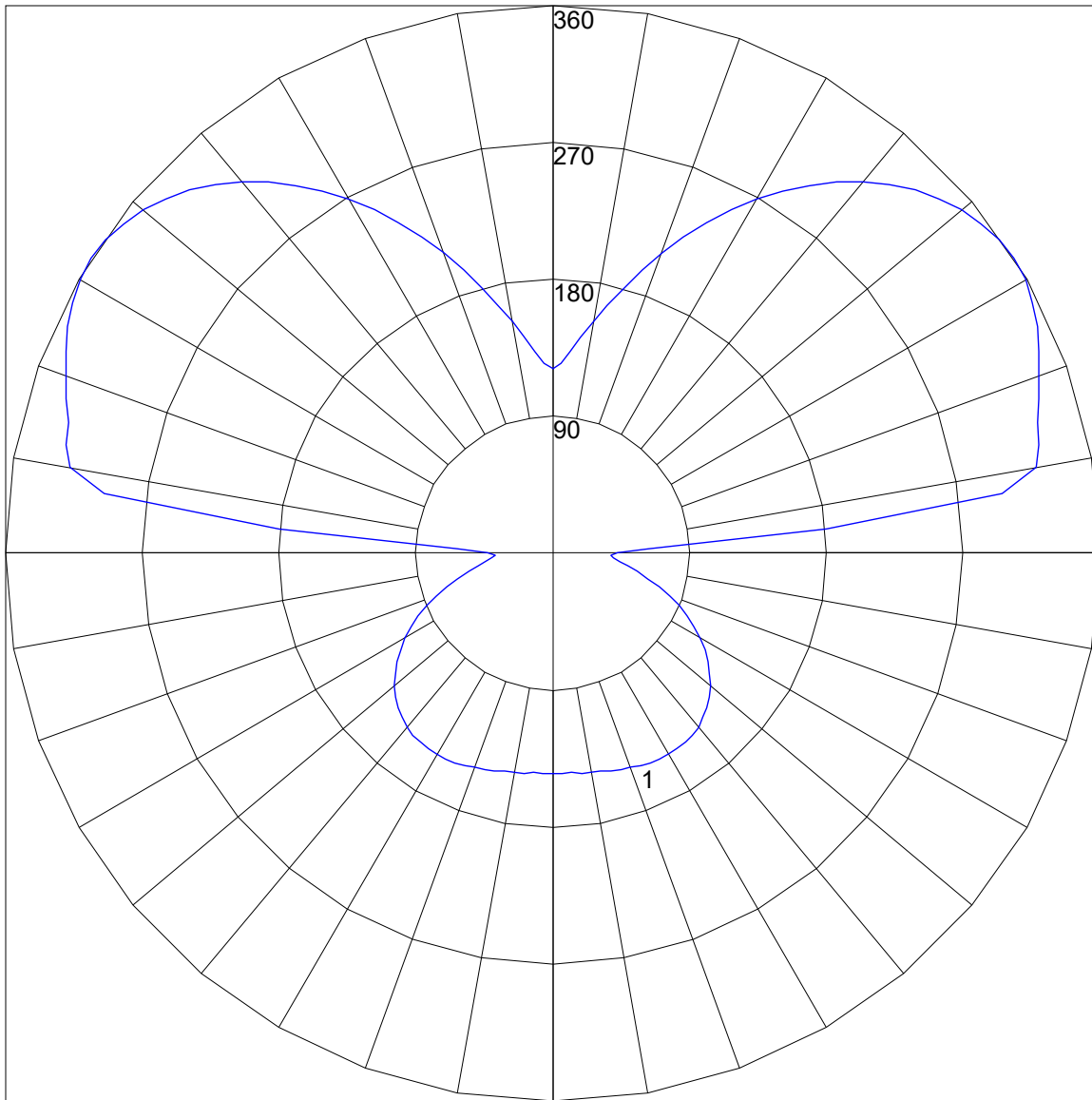
Zone	Lumens
0-10	13.81
10-20	41.09
20-30	66.50
30-40	86.82
40-50	97.71
50-60	95.70
60-70	79.91
70-80	53.88
80-90	30.43
90-100	149.03
100-110	243.80
110-120	249.97
120-130	229.47
130-140	188.20
140-150	137.61
150-160	87.12
160-170	44.21
170-180	12.56

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	30
1	93	88	84	80	83	79	76	72	62	60	57	46	45	43	32	31	30	24
2	84	76	70	65	75	68	63	59	54	50	47	40	38	36	28	26	25	19
3	76	67	59	53	68	60	54	48	47	43	39	35	32	30	24	22	21	16
4	69	59	51	45	62	53	46	41	41	37	33	31	28	25	21	19	17	13
5	63	52	44	38	57	47	40	35	37	32	28	28	24	21	19	17	15	11
6	58	46	38	33	52	42	35	30	33	28	24	25	21	18	17	15	13	10
7	54	42	34	28	48	37	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	27	22	27	22	18	20	17	14	14	12	10	7
9	46	34	27	22	41	31	24	20	24	20	16	19	15	12	13	11	9	7
10	43	31	24	19	38	28	22	18	22	18	14	17	14	11	12	10	8	6

POLAR GRAPH



Maximum Candela = 359.9 Located At Horizontal Angle = 90, Vertical Angle = 122.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)