

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-H-835-OPEN-ITL93789.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL93789.001 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-H-835-OPEN

[_INPUT_ELECTRICAL]120.0 VOLTS, 26.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 26.6 WATTS

[_ABSOLUTE]LUMENS]3624

[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	3624
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	26.4
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	3133	3191	3465
55	3138	3148	3465
65	3043	2950	3302
75	2803	2567	2928
85	2579	2257	2867

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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	274.522	274.522	274.522	274.522	274.522
2.5	273.744	274.522	274.522	274.522	274.522
5.0	273.744	274.522	274.522	275.300	275.300
7.5	272.967	273.744	274.522	276.077	276.855
10.0	271.411	272.967	275.300	277.633	277.633
12.5	269.856	271.411	276.077	279.188	279.188
15.0	268.300	269.856	276.077	280.743	281.521
17.5	265.967	268.300	276.077	282.299	283.076
20.0	263.634	266.745	276.077	283.854	284.632
22.5	260.524	264.412	275.300	284.632	286.965
25.0	257.413	261.301	274.522	285.409	288.520
27.5	252.747	258.191	272.189	285.409	289.298
30.0	248.858	254.302	270.633	284.632	290.076
32.5	243.415	249.636	267.523	283.854	289.298
35.0	237.971	244.970	263.634	282.299	288.520
37.5	230.972	238.749	259.746	279.188	286.187
40.0	223.973	232.527	254.302	274.522	283.076
42.5	216.973	225.528	248.081	269.856	278.410
45.0	208.419	217.751	241.082	263.634	272.967
47.5	199.864	209.197	232.527	256.635	265.190
50.0	190.532	199.864	223.973	248.081	257.413
52.5	181.200	190.532	213.863	237.971	247.303
55.0	170.312	179.645	203.753	227.083	237.193
57.5	159.425	168.757	192.088	216.196	225.528
60.0	147.760	157.092	179.645	202.975	213.085
62.5	135.317	144.649	166.424	189.755	199.087
65.0	122.874	132.206	153.203	174.979	185.088
67.5	110.431	118.985	139.205	160.203	170.312
70.0	97.210	104.987	125.207	145.427	155.536
72.5	83.990	91.767	110.431	129.873	139.205
75.0	70.769	78.546	96.433	115.097	122.874
77.5	58.326	65.325	82.434	99.543	107.320
80.0	45.883	53.660	68.436	86.323	94.877
82.5	34.218	41.217	56.771	76.213	84.767
85.0	24.108	29.552	49.772	68.436	76.213
87.5	13.998	24.108	45.106	64.548	72.324
90.0	6.221	29.552	53.660	73.102	81.657
92.5	16.331	188.199	121.318	115.875	119.763
95.0	30.330	225.528	412.172	363.178	343.736
97.5	43.550	245.748	456.500	545.933	566.153
100.0	57.548	269.856	464.276	579.373	612.814
102.5	70.769	290.076	479.052	585.595	622.146
105.0	83.990	306.407	495.384	594.927	626.812
107.5	97.210	318.072	510.937	607.370	637.700
110.0	109.653	326.627	525.713	619.035	647.032
112.5	121.318	332.070	536.601	631.478	657.919
115.0	132.984	335.181	544.378	641.588	668.807
117.5	143.094	335.959	547.488	648.587	676.584
120.0	153.203	336.736	547.488	652.476	682.027
122.5	161.758	336.736	544.378	652.476	683.583
125.0	171.090	335.181	538.934	648.587	682.027
127.5	178.867	333.626	531.157	641.588	675.028
130.0	185.866	331.293	521.825	631.478	666.474
132.5	192.865	328.182	510.937	619.035	654.809

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CANDELA TABULATION - (Cont.)

135.0	198.309	325.071	499.272	605.037	640.810
137.5	204.530	320.405	486.052	588.706	622.924
140.0	208.419	315.739	471.276	570.819	604.259
142.5	212.307	310.295	455.722	551.377	583.262
145.0	216.196	304.852	439.391	529.602	559.931
147.5	219.306	300.185	422.282	507.049	535.046
150.0	221.639	293.964	403.617	484.496	510.937
152.5	223.973	287.742	385.730	458.833	483.718
155.0	225.528	282.299	367.066	433.169	455.722
157.5	227.083	276.855	348.402	406.728	426.948
160.0	227.861	270.633	330.515	381.064	398.173
162.5	228.639	262.857	314.184	353.846	370.177
165.0	229.416	256.635	297.852	329.737	342.180
167.5	229.416	250.414	283.076	307.185	315.739
170.0	229.416	244.970	268.300	286.965	293.186
172.5	229.416	239.526	254.302	266.745	272.189
175.0	230.194	234.860	243.415	249.636	252.747
177.5	229.416	230.972	234.082	236.415	237.193
180.0	230.194	230.194	230.194	230.194	230.194

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	104.27	N.A.	2.90
0-30	230.58	N.A.	6.40
0-40	395.48	N.A.	10.90
0-60	762.83	N.A.	21.10
0-80	1016.96	N.A.	28.10
0-90	1074.75	N.A.	29.70
10-90	1048.52	N.A.	28.90
20-40	291.21	N.A.	8.00
20-50	476.79	N.A.	13.20
40-70	519.14	N.A.	14.30
60-80	254.13	N.A.	7.00
70-80	102.34	N.A.	2.80
80-90	57.80	N.A.	1.60
90-110	746.12	N.A.	20.60
90-120	1220.9	N.A.	33.70
90-130	1656.76	N.A.	45.70
90-150	2275.59	N.A.	62.80
90-180	2548.88	N.A.	70.30
110-180	1802.76	N.A.	49.80
0-180	3623.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	26.23
10-20	78.04
20-30	126.32
30-40	164.89
40-50	185.58
50-60	181.77
60-70	151.79
70-80	102.34
80-90	57.80
90-100	283.06
100-110	463.06
110-120	474.78
120-130	435.86
130-140	357.47
140-150	261.37
150-160	165.47
160-170	83.97
170-180	23.85

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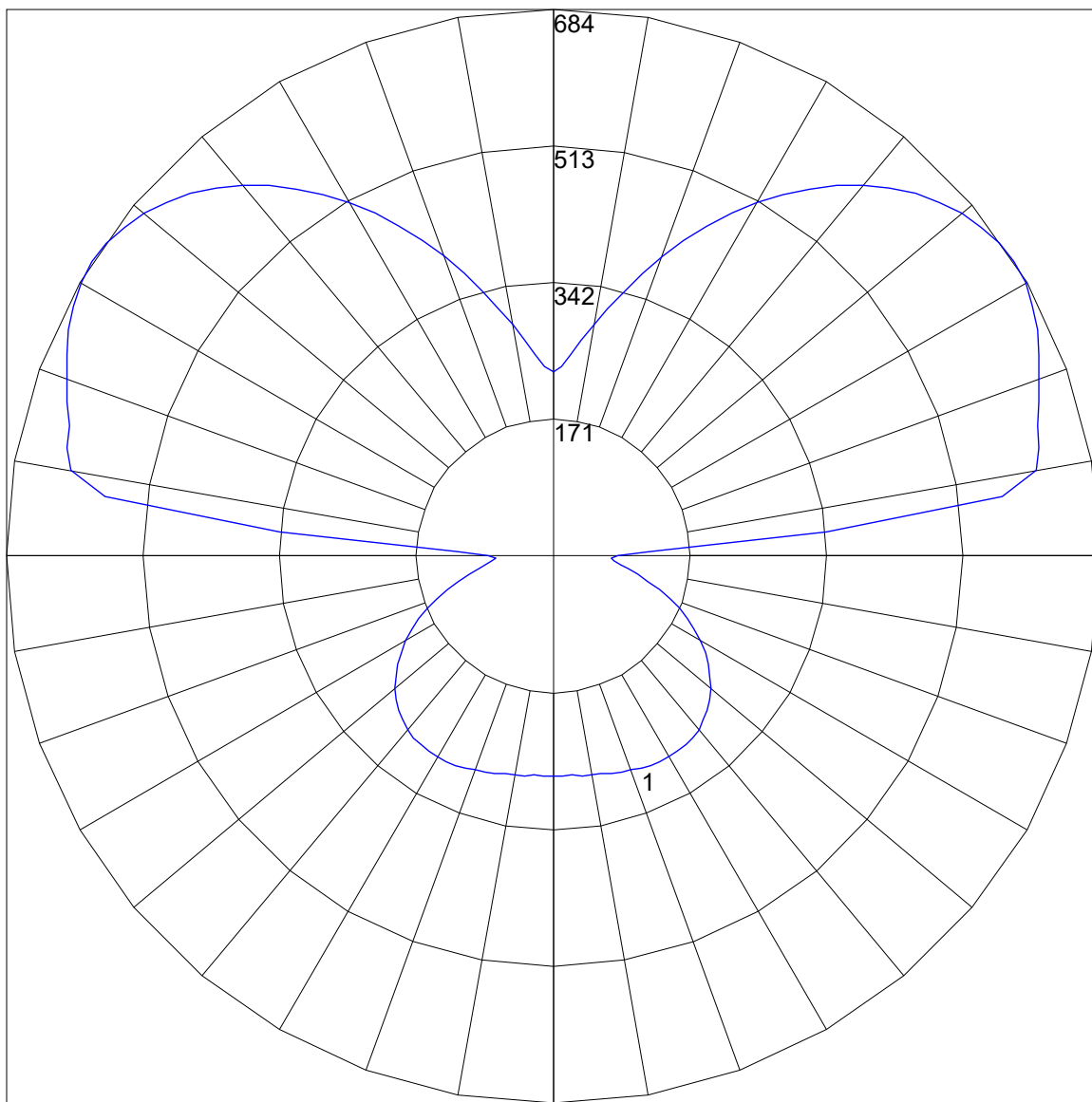
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 683.583 Located At Horizontal Angle = 90, Vertical Angle = 122.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)