

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 : HP-2-ID-4FT-B-B-835-WSO-ITL89456.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456.002 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUE DATE]08/23/17
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-2-ID-4ft-B-B-835-WSO
[INPUT_ELECTRICAL]120.0 VOLTS, 36.1 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 38.8 WATTS
[OTHER]see www.finelite.com for source file ITL89456. 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
[ABSOLUTE LUMENS]3772

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3772
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	36.1
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)	4.00 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8773	8275	7789
55	7737	7287	6797
65	6729	6359	5953
75	5645	5433	5132
85	4392	4303	4034

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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	751.827	751.827	751.827	751.827	751.827
2.5	750.798	750.798	750.283	750.283	750.798
5.0	746.681	746.166	745.137	744.623	744.623
7.5	740.506	739.991	737.418	735.360	735.874
10.0	733.301	729.699	726.612	724.553	724.039
12.5	720.951	717.349	713.747	710.659	709.115
15.0	708.086	700.882	699.338	693.677	690.590
17.5	692.134	682.871	679.783	672.579	668.462
20.0	673.608	663.316	659.199	650.451	644.791
22.5	653.024	642.218	635.528	625.751	620.090
25.0	629.867	619.575	610.827	599.506	593.331
27.5	607.740	594.360	584.583	572.232	566.057
30.0	581.495	568.630	556.794	543.415	536.725
32.5	554.736	541.871	529.521	514.597	507.908
35.0	526.433	513.568	500.703	484.751	478.061
37.5	497.616	485.265	471.886	455.419	449.244
40.0	467.769	455.933	442.554	425.572	419.397
42.5	437.922	427.116	414.251	396.755	390.579
45.0	408.590	397.784	385.434	368.966	362.791
47.5	378.744	368.966	357.131	340.664	335.003
50.0	349.412	340.664	329.342	313.904	307.729
52.5	321.109	313.390	302.069	287.660	281.999
55.0	292.291	286.631	275.310	261.930	256.784
57.5	265.018	259.872	249.580	237.229	232.598
60.0	238.259	234.142	224.879	213.558	209.441
62.5	212.529	208.412	200.693	190.916	186.799
65.0	187.313	183.197	177.022	168.788	165.700
67.5	163.127	160.040	154.379	147.689	144.602
70.0	139.971	137.912	132.766	127.106	125.047
72.5	117.328	116.299	112.182	108.065	106.522
75.0	96.230	95.715	92.628	89.540	87.482
77.5	76.675	76.160	73.587	72.044	70.500
80.0	58.150	57.635	56.091	54.547	53.518
82.5	41.168	41.168	40.139	39.109	37.566
85.0	25.215	25.215	24.701	23.671	23.157
87.5	10.292	10.292	9.777	8.748	8.748
90.0	0.000	0.000	0.000	0.000	0.000
92.5	9.263	15.953	15.953	15.438	15.438
95.0	24.186	42.712	42.712	35.507	34.993
97.5	40.653	69.985	85.938	61.752	58.150
100.0	57.635	91.084	170.846	99.317	87.482
102.5	76.160	111.153	236.200	175.478	139.456
105.0	94.171	132.766	273.766	286.116	235.686
107.5	112.182	153.865	296.923	385.948	359.704
110.0	130.193	173.419	317.507	444.612	449.244
112.5	148.204	192.459	341.693	483.207	502.762
115.0	166.730	210.470	370.510	510.995	539.298
117.5	185.255	228.481	401.901	537.240	567.601
120.0	203.781	247.521	427.631	565.028	595.904
122.5	220.762	263.474	446.156	604.137	625.751
125.0	236.715	278.912	456.448	646.849	668.462
127.5	251.638	293.321	462.623	675.666	715.805
130.0	263.989	305.671	466.225	687.502	749.769
132.5	276.339	316.992	467.255	682.871	760.575

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CANDELA TABULATION - (Cont.)

135.0	287.145	326.255	466.740	668.462	749.769
137.5	296.923	335.003	465.196	648.907	727.126
140.0	306.700	342.722	462.623	627.294	698.309
142.5	315.963	349.926	459.021	603.108	667.433
145.0	325.740	356.616	455.419	579.951	636.042
147.5	333.974	361.762	451.302	556.280	604.137
150.0	342.207	367.423	446.156	535.181	574.291
152.5	349.926	371.539	439.981	515.112	546.503
155.0	357.131	374.627	433.806	495.557	520.773
157.5	363.820	378.744	428.145	477.546	497.616
160.0	369.481	381.317	421.455	460.050	476.003
162.5	374.627	383.375	414.766	445.127	455.933
165.0	378.744	385.434	408.076	430.718	438.952
167.5	382.346	386.977	402.930	418.368	424.028
170.0	385.434	388.521	399.328	408.590	412.193
172.5	386.977	389.550	395.211	400.357	403.444
175.0	389.036	390.065	392.638	395.211	396.240
177.5	390.065	390.065	391.094	391.094	391.609
180.0	390.579	390.579	390.579	390.579	390.579

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	266.88	N.A.	7.10
0-30	547.56	N.A.	14.50
0-40	860.34	N.A.	22.80
0-60	1403.00	N.A.	37.20
0-80	1676.54	N.A.	44.40
0-90	1704.28	N.A.	45.20
10-90	1633.7	N.A.	43.30
20-40	593.46	N.A.	15.70
20-50	890.13	N.A.	23.60
40-70	717.93	N.A.	19.00
60-80	273.54	N.A.	7.30
70-80	98.27	N.A.	2.60
80-90	27.74	N.A.	0.70
90-110	270.57	N.A.	7.20
90-120	627.55	N.A.	16.60
90-130	1035.61	N.A.	27.50
90-150	1711.31	N.A.	45.40
90-180	2067.55	N.A.	54.80
110-180	1796.98	N.A.	47.60
0-180	3771.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.58
10-20	196.29
20-30	280.68
30-40	312.78
40-50	296.66
50-60	246.00
60-70	175.27
70-80	98.27
80-90	27.74
90-100	47.20
100-110	223.37
110-120	356.98
120-130	408.06
130-140	381.39
140-150	294.32
150-160	202.31
160-170	116.26
170-180	37.67

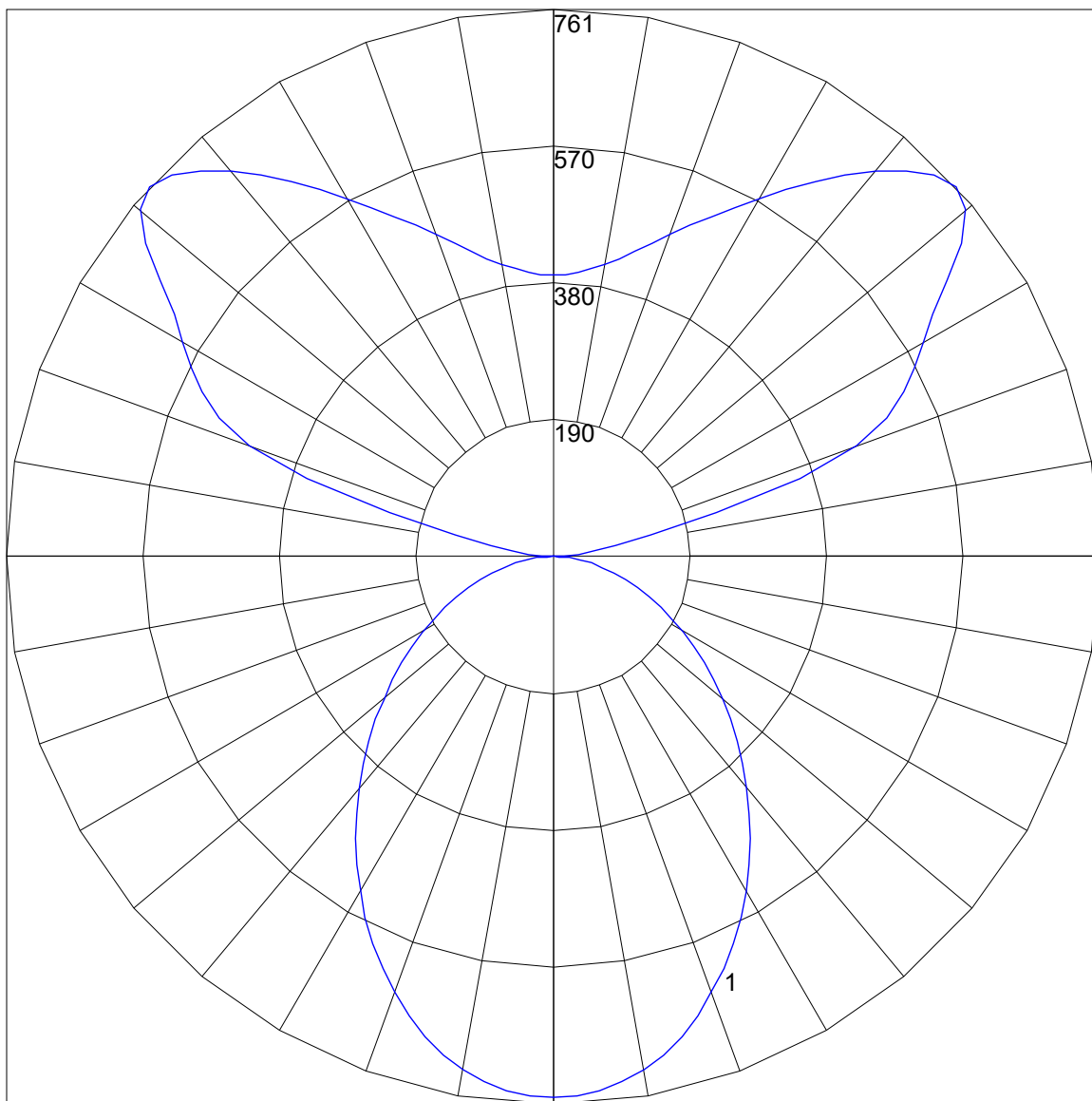
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	93	89	85	89	85	82	79	71	69	67	58	56	55	46	45	44	38
2	88	81	75	70	81	75	69	65	62	59	55	51	49	46	41	39	37	33
3	81	71	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	63	56	50	68	58	52	46	49	44	40	41	37	34	33	30	28	24
5	68	57	49	43	62	52	45	40	44	39	35	37	33	29	29	27	24	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15
9	50	38	31	26	46	35	29	24	30	25	21	25	21	19	21	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	19	16	14	12

POLAR GRAPH



Maximum Candela = 760.575 Located At Horizontal Angle = 90, Vertical Angle = 132.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)