

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-S-835-WSO-ITL89456.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456.010 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-S-835-WSO
[INPUT_ELECTRICAL]120.0 VOLTS, 32.2 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 35.1 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]3423

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3423
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	32.2
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
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	6979	6584	6197
55	6155	5798	5408
65	5354	5059	4736
75	4491	4323	4083
85	3494	3423	3209

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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	598.153	598.153	598.153	598.153	598.153
2.5	597.334	597.334	596.925	596.925	597.334
5.0	594.059	593.649	592.831	592.421	592.421
7.5	589.146	588.736	586.689	585.052	585.461
10.0	583.414	580.548	578.092	576.454	576.045
12.5	573.588	570.722	567.856	565.400	564.172
15.0	563.353	557.621	556.393	551.889	549.433
17.5	550.661	543.292	540.835	535.103	531.828
20.0	535.922	527.734	524.459	517.499	512.995
22.5	519.546	510.948	505.625	497.847	493.343
25.0	501.122	492.934	485.974	476.967	472.054
27.5	483.517	472.873	465.094	455.268	450.355
30.0	462.637	452.402	442.985	432.341	427.018
32.5	441.348	431.112	421.286	409.413	404.091
35.0	418.830	408.595	398.359	385.667	380.345
37.5	395.903	386.077	375.432	362.331	357.418
40.0	372.157	362.740	352.096	338.585	333.672
42.5	348.411	339.813	329.578	315.658	310.745
45.0	325.074	316.477	306.651	293.549	288.636
47.5	301.328	293.549	284.133	271.032	266.528
50.0	277.992	271.032	262.025	249.742	244.829
52.5	255.474	249.333	240.326	228.862	224.358
55.0	232.547	228.043	219.036	208.391	204.297
57.5	210.848	206.754	198.565	188.740	185.055
60.0	189.558	186.283	178.914	169.907	166.631
62.5	169.088	165.812	159.671	151.892	148.617
65.0	149.026	145.751	140.838	134.288	131.831
67.5	129.784	127.328	122.824	117.502	115.045
70.0	111.360	109.723	105.629	101.125	99.487
72.5	93.346	92.527	89.252	85.977	84.749
75.0	76.560	76.151	73.694	71.238	69.600
77.5	61.003	60.593	58.546	57.318	56.090
80.0	46.264	45.854	44.626	43.398	42.579
82.5	32.753	32.753	31.934	31.115	29.887
85.0	20.061	20.061	19.652	18.833	18.424
87.5	8.188	8.188	7.779	6.960	6.960
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	427.630	565.028	595.904
122.5	220.762	263.474	446.156	604.138	625.750
125.0	236.715	278.912	456.448	646.849	668.462
127.5	251.638	293.321	462.623	675.667	715.805
130.0	263.988	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	648.908	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	636.043
147.5	333.974	361.762	451.302	556.280	604.138
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	385.433	408.076	430.718	438.952
167.5	382.346	386.977	402.930	418.368	424.028
170.0	385.433	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	212.33	N.A.	6.20
0-30	435.64	N.A.	12.70
0-40	684.48	N.A.	20.00
0-60	1116.22	N.A.	32.60
0-80	1333.86	N.A.	39.00
0-90	1355.93	N.A.	39.60
10-90	1299.77	N.A.	38.00
20-40	472.16	N.A.	13.80
20-50	708.18	N.A.	20.70
40-70	571.18	N.A.	16.70
60-80	217.63	N.A.	6.40
70-80	78.19	N.A.	2.30
80-90	22.07	N.A.	0.60
90-110	270.57	N.A.	7.90
90-120	627.55	N.A.	18.30
90-130	1035.61	N.A.	30.30
90-150	1711.31	N.A.	50.00
90-180	2067.55	N.A.	60.40
110-180	1796.98	N.A.	52.50
0-180	3423.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

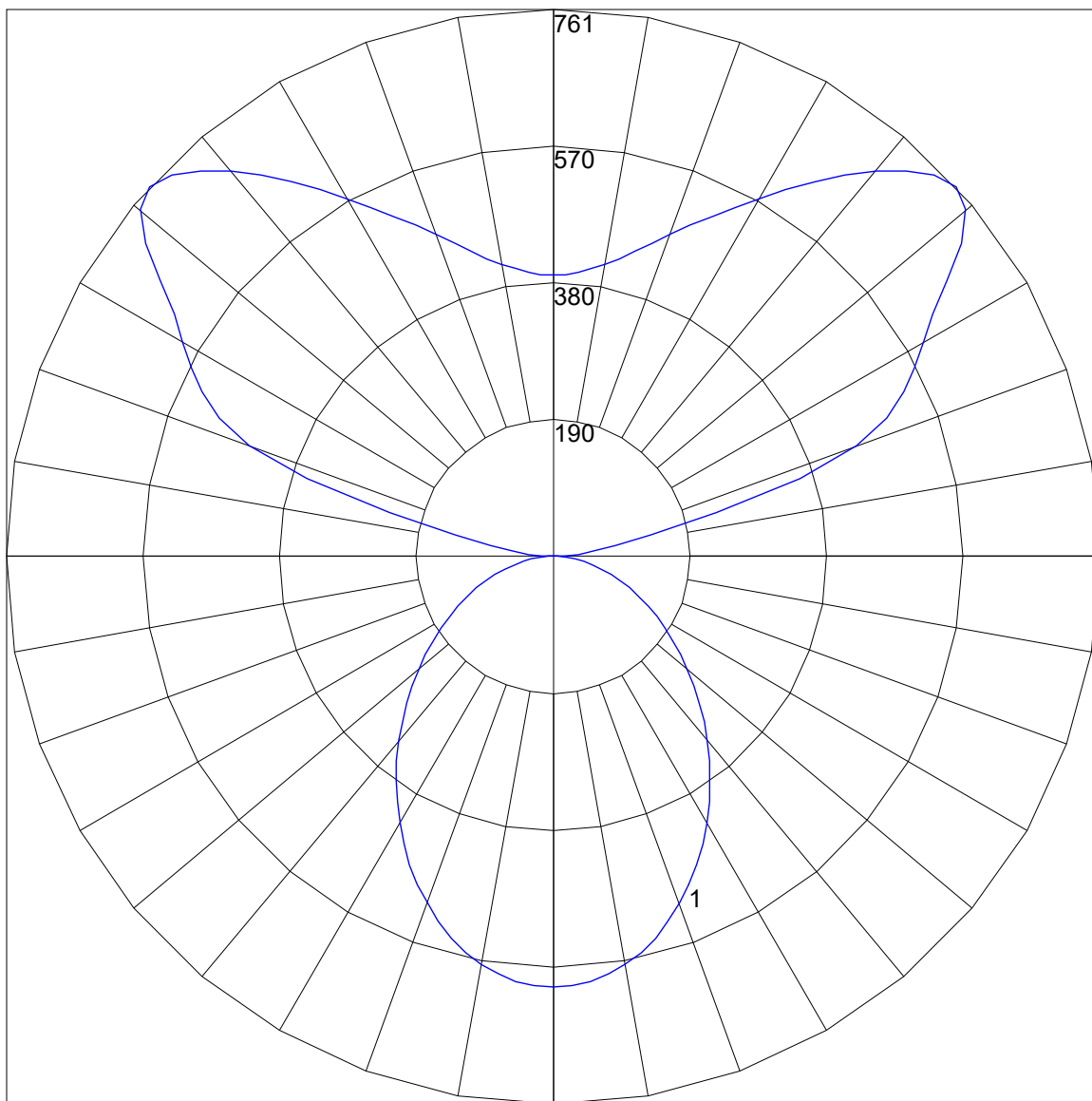
Zone	Lumens
0-10	56.16
10-20	156.17
20-30	223.31
30-40	248.85
40-50	236.03
50-60	195.71
60-70	139.45
70-80	78.19
80-90	22.07
90-100	47.20
100-110	223.37
110-120	356.98
120-130	408.06
130-140	381.39
140-150	294.32
150-160	202.31
160-170	116.26
170-180	37.67

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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	29
3	80	70	63	58	72	64	58	53	53	49	45	42	39	37	33	31	29	24
4	73	62	55	49	66	57	51	45	47	42	38	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	35	29	26	28	24	21	22	19	17	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	20	18	16	13
9	49	37	30	25	45	34	28	24	29	24	20	24	20	17	19	16	14	12
10	46	34	27	23	42	32	25	21	27	22	18	22	18	16	17	15	13	11

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.)