

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-DSO-ITL89456-ITL94139.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-ITL94139.002 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]12/15/2020

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-B-B-835-WSO-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 35.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 38.0 WATTS

[OTHER]see www.finelite.com for source files ITL89456 and ITL94139. 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]3752

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3752
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	35.8
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	7114	8992	9235
55	6469	8280	8280
65	5804	7356	7153
75	5161	6278	5946
85	4481	4750	4302

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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	599.922	599.922	599.922	599.922	599.922
2.5	598.893	598.893	599.407	600.436	600.436
5.0	595.806	596.320	598.893	601.465	602.494
7.5	590.146	592.204	596.835	602.494	605.581
10.0	582.943	585.515	595.806	606.611	610.212
12.5	574.196	577.283	594.777	609.698	613.814
15.0	562.362	567.508	591.690	610.727	615.872
17.5	550.014	556.703	587.573	610.727	616.901
20.0	534.579	544.354	582.428	608.154	614.843
22.5	518.114	529.948	573.682	602.494	610.212
25.0	499.592	515.542	563.906	594.777	601.980
27.5	481.069	500.106	552.587	583.972	591.175
30.0	461.003	483.642	538.180	569.566	575.225
32.5	440.423	465.120	523.259	553.101	557.732
35.0	418.813	445.568	506.281	533.035	536.122
37.5	397.718	426.017	486.214	510.911	512.455
40.0	375.080	405.436	464.605	487.243	486.214
42.5	353.470	383.827	442.481	460.489	458.431
45.0	331.346	361.702	418.813	433.220	430.133
47.5	309.737	339.578	393.088	404.921	401.834
50.0	287.098	316.940	366.848	375.594	370.449
52.5	264.974	293.272	340.093	346.782	341.636
55.0	244.393	270.119	312.824	316.940	312.824
57.5	222.784	246.966	285.555	288.127	281.438
60.0	202.203	223.298	258.285	260.343	253.655
62.5	182.652	200.660	232.045	231.531	226.386
65.0	161.557	179.050	204.776	204.262	199.116
67.5	143.035	156.926	179.050	177.507	172.362
70.0	123.998	135.831	154.354	151.781	147.151
72.5	105.475	115.251	130.172	127.599	123.483
75.0	87.982	95.185	107.019	104.446	101.359
77.5	71.517	76.662	84.895	82.322	79.749
80.0	56.082	58.654	64.829	61.742	59.684
82.5	41.161	42.190	45.277	43.219	41.675
85.0	25.726	26.755	27.269	25.726	24.697
87.5	11.834	11.834	10.805	10.290	9.261
90.0	0.000	0.000	0.000	0.000	0.000
92.5	9.264	15.955	15.955	15.441	15.441
95.0	24.190	42.719	42.719	35.513	34.998
97.5	40.660	69.997	85.952	61.762	58.159
100.0	57.645	91.099	170.875	99.334	87.496
102.5	76.173	111.172	236.240	175.507	139.479
105.0	94.187	132.788	273.812	286.164	235.725
107.5	112.201	153.891	296.973	386.013	359.764
110.0	130.215	173.448	317.560	444.687	449.319
112.5	148.229	192.492	341.750	483.288	502.846
115.0	166.758	210.506	370.572	511.081	539.389
117.5	185.286	228.520	401.968	537.330	567.697
120.0	203.815	247.563	427.702	565.123	596.004
122.5	220.799	263.518	446.231	604.239	625.856
125.0	236.755	278.959	456.525	646.958	668.574
127.5	251.680	293.370	462.701	675.780	715.925
130.0	264.033	305.722	466.304	687.618	749.895
132.5	276.385	317.045	467.333	682.986	760.703

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-835-WSO-DSO-ITL89456-ITL94139.002.IES****CANDELA TABULATION - (Cont.)**

135.0	287.194	326.310	466.818	668.574	749.895
137.5	296.973	335.059	465.274	649.016	727.249
140.0	306.752	342.779	462.701	627.400	698.426
142.5	316.016	349.985	459.098	603.210	667.545
145.0	325.795	356.676	455.495	580.049	636.149
147.5	334.030	361.823	451.378	556.373	604.239
150.0	342.265	367.484	446.231	535.271	574.387
152.5	349.985	371.602	440.055	515.199	546.594
155.0	357.191	374.690	433.879	495.641	520.860
157.5	363.882	378.807	428.217	477.627	497.699
160.0	369.543	381.381	421.526	460.127	476.083
162.5	374.690	383.440	414.835	445.202	456.010
165.0	378.807	385.498	408.144	430.791	439.026
167.5	382.410	387.042	402.998	418.438	424.100
170.0	385.498	388.586	399.395	408.659	412.262
172.5	387.042	389.616	395.277	400.424	403.512
175.0	389.101	390.130	392.704	395.277	396.307
177.5	390.130	390.130	391.160	391.160	391.675
180.0	390.645	390.645	390.645	390.645	390.645

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Zone	Lumens	%Lamp	%Fixt
0-20	223.70	N.A.	6.00
0-30	479.85	N.A.	12.80
0-40	786.28	N.A.	21.00
0-60	1356.9	N.A.	36.20
0-80	1654.18	N.A.	44.10
0-90	1684.25	N.A.	44.90
10-90	1627.18	N.A.	43.40
20-40	562.58	N.A.	15.00
20-50	869.79	N.A.	23.20
40-70	761.20	N.A.	20.30
60-80	297.29	N.A.	7.90
70-80	106.70	N.A.	2.80
80-90	30.07	N.A.	0.80
90-110	270.61	N.A.	7.20
90-120	627.65	N.A.	16.70
90-130	1035.78	N.A.	27.60
90-150	1711.6	N.A.	45.60
90-180	2067.9	N.A.	55.10
110-180	1797.28	N.A.	47.90
0-180	3752.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.07
10-20	166.63
20-30	256.15
30-40	306.43
40-50	307.21
50-60	263.41
60-70	190.59
70-80	106.70
80-90	30.07
90-100	47.20
100-110	223.41
110-120	357.04
120-130	408.13
130-140	381.45
140-150	294.37
150-160	202.34
160-170	116.28
170-180	37.67

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

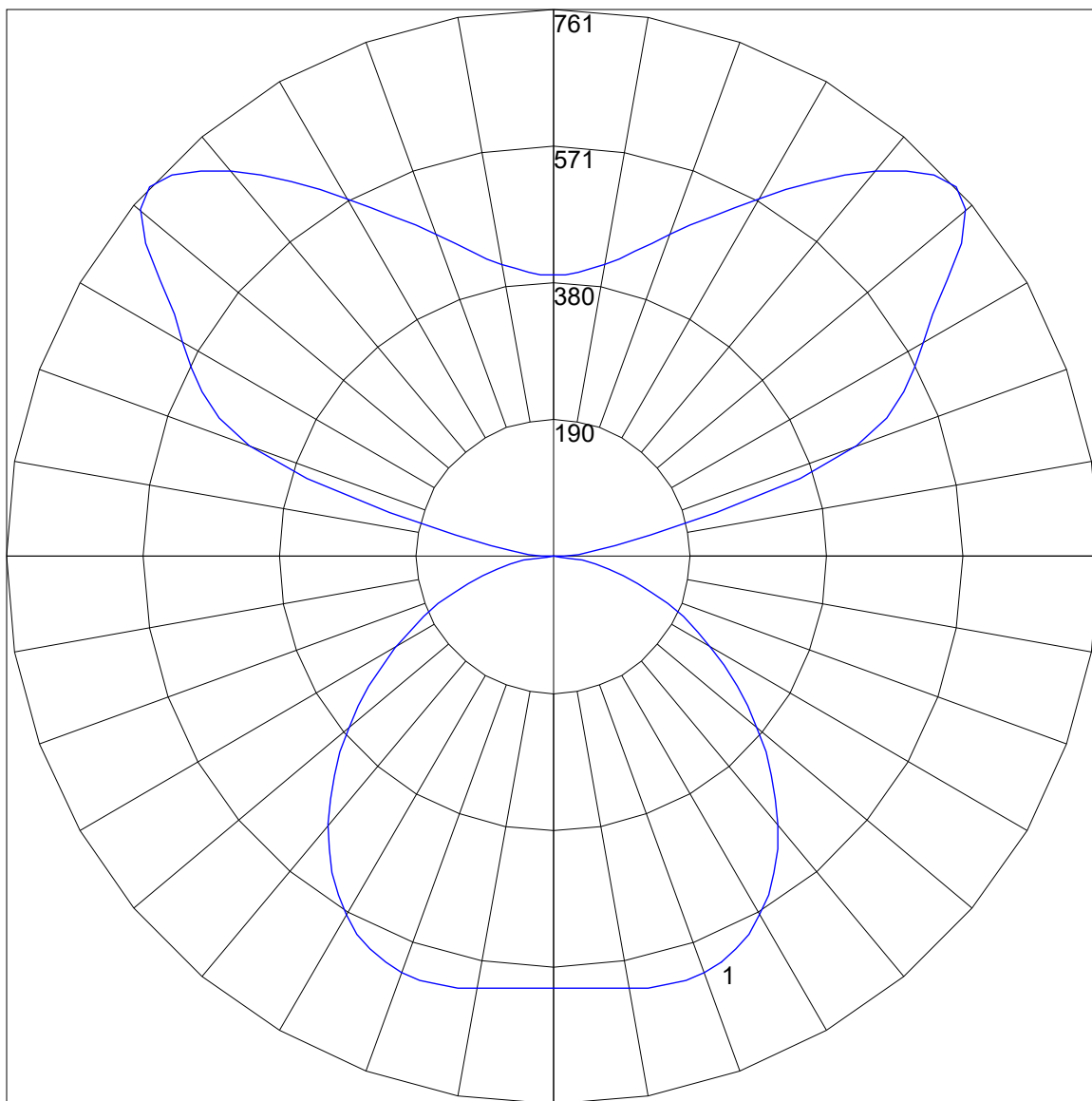
Effective Floor Cavity Reflectance 0.20

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	80	80	80	65	65	65	51	51	51	45
1	97	92	88	85	88	85	81	78	71	68	66	57	56	54	45	44	43	38
2	88	81	75	69	80	74	69	64	62	58	55	50	48	45	40	38	37	32
3	80	71	64	58	73	65	59	54	54	50	46	45	41	38	35	33	31	27
4	73	63	55	49	67	58	51	45	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	28	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	22	19	22	18	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

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POLAR GRAPH



Maximum Candela = 760.703 Located At Horizontal Angle = 90, Vertical Angle = 132.5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)