

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-DSO-ITL89456-ITL94139.012.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-ITL94139.012 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-S-835-WSO-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 32.0 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 34.5 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]3408

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3408
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	32
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	5661	7155	7349
55	5147	6589	6589
65	4618	5854	5692
75	4107	4995	4731
85	3566	3780	3423

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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	477.372	477.372	477.372	477.372	477.372
2.5	476.554	476.554	476.963	477.782	477.782
5.0	474.097	474.507	476.554	478.601	479.420
7.5	469.594	471.231	474.916	479.420	481.876
10.0	463.862	465.909	474.097	482.695	485.561
12.5	456.902	459.358	473.278	485.151	488.426
15.0	447.485	451.580	470.822	485.970	490.064
17.5	437.660	442.982	467.547	485.970	490.883
20.0	425.377	433.156	463.452	483.923	489.245
22.5	412.276	421.693	456.493	479.420	485.561
25.0	397.537	410.229	448.714	473.278	479.010
27.5	382.799	397.947	439.707	464.681	470.412
30.0	366.832	384.846	428.243	453.217	457.721
32.5	350.455	370.107	416.370	440.116	443.801
35.0	333.260	354.549	402.860	424.149	426.606
37.5	316.474	338.992	386.893	406.544	407.773
40.0	298.460	322.615	369.697	387.712	386.893
42.5	281.265	305.420	352.093	366.422	364.785
45.0	263.660	287.815	333.260	344.724	342.267
47.5	246.465	270.211	312.789	322.206	319.750
50.0	228.451	252.197	291.909	298.870	294.775
52.5	210.846	233.364	270.620	275.942	271.848
55.0	194.470	214.940	248.922	252.197	248.922
57.5	177.275	196.517	227.223	229.270	223.947
60.0	160.898	177.684	205.524	207.162	201.839
62.5	145.341	159.670	184.644	184.235	180.141
65.0	128.555	142.475	162.945	162.536	158.442
67.5	113.816	124.870	142.475	141.247	137.153
70.0	98.668	108.084	122.823	120.776	117.091
72.5	83.929	91.708	103.581	101.534	98.258
75.0	70.009	75.741	85.157	83.110	80.654
77.5	56.908	61.002	67.553	65.506	63.459
80.0	44.626	46.673	51.586	49.129	47.492
82.5	32.753	33.572	36.028	34.391	33.162
85.0	20.471	21.289	21.699	20.471	19.652
87.5	9.416	9.416	8.598	8.188	7.369
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-S-835-WSO-DSO-ITL89456-ITL94139.012.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	178.00	N.A.	5.20
0-30	381.83	N.A.	11.20
0-40	625.66	N.A.	18.40
0-60	1079.72	N.A.	31.70
0-80	1316.27	N.A.	38.60
0-90	1340.2	N.A.	39.30
10-90	1294.79	N.A.	38.00
20-40	447.66	N.A.	13.10
20-50	692.11	N.A.	20.30
40-70	605.71	N.A.	17.80
60-80	236.56	N.A.	6.90
70-80	84.90	N.A.	2.50
80-90	23.92	N.A.	0.70
90-110	270.61	N.A.	7.90
90-120	627.65	N.A.	18.40
90-130	1035.78	N.A.	30.40
90-150	1711.6	N.A.	50.20
90-180	2067.9	N.A.	60.70
110-180	1797.28	N.A.	52.70
0-180	3408.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.41
10-20	132.59
20-30	203.83
30-40	243.84
40-50	244.45
50-60	209.60
60-70	151.65
70-80	84.90
80-90	23.92
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

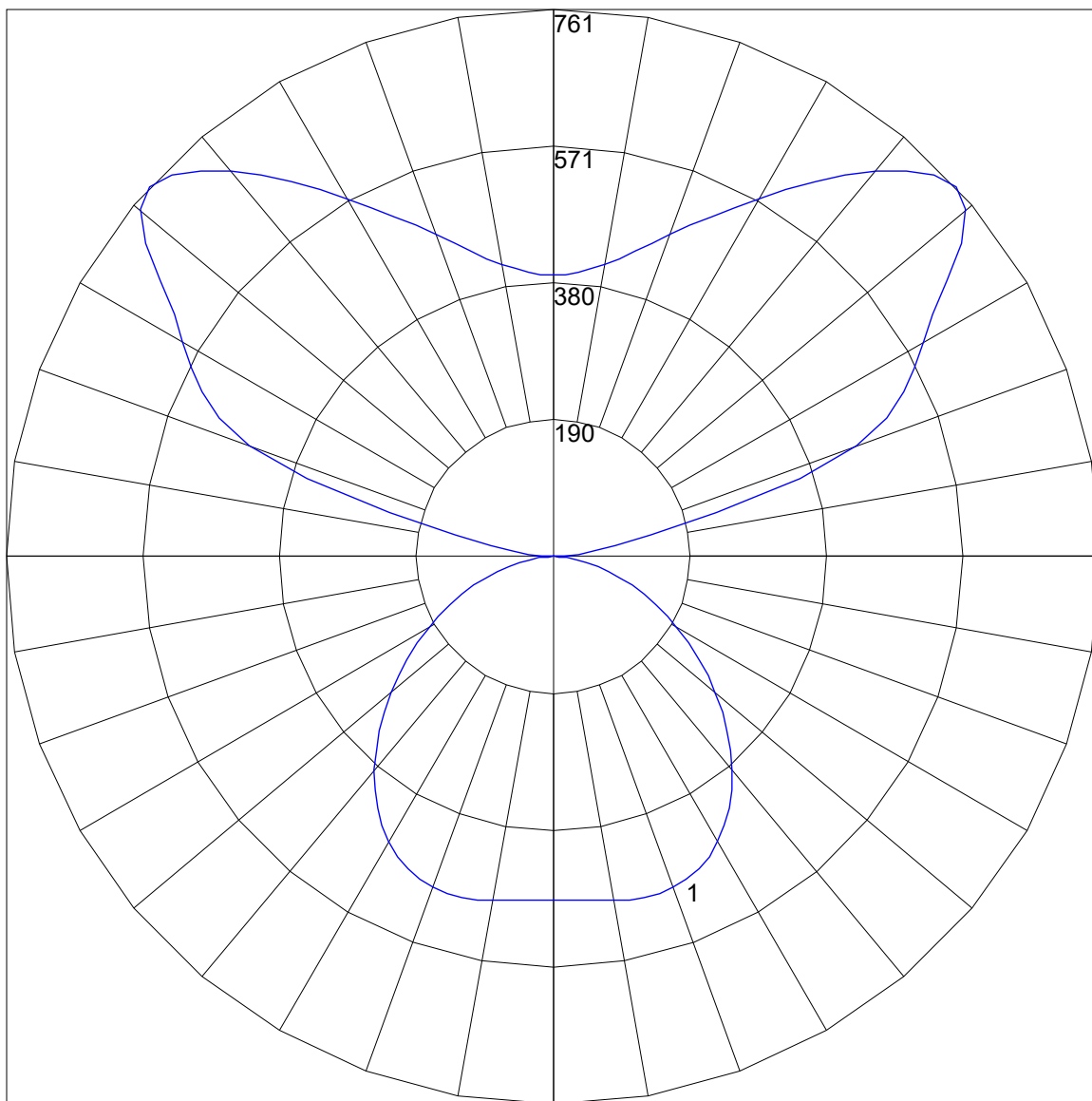
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	63	54	52	51	41	40	39	33
2	87	80	74	68	79	73	67	63	59	56	53	47	45	42	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	23
4	72	62	54	48	66	56	50	44	46	41	37	37	34	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	27	26	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	14
8	52	40	33	27	47	37	30	25	31	25	22	25	21	18	19	17	15	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	17	14	12	10

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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.)