

# 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-V-S-835-WSO-DSO-ABL-8H-ITL89456-ITL94139.206.IES****DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL89456-ITL94139.206 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]06/23/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-V-S-835-WSO-DSO-ABL-8H

[INPUT\_ELECTRICAL]120.0 VOLTS, 50.3 WATTS

[INPUT\_ELECTRICAL]277.0 VOLTS, 52.4 WATTS

[OTHER]see [www.finelite.com](http://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](http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf)

[ABSOLUTE LUMENS]5358

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5358
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	50.3
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

# IES INDOOR REPORT

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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	18.000	31.000	31.000	30.000	30.000
95.0	47.000	83.000	83.000	69.000	68.000
97.5	79.000	136.000	167.000	120.000	113.000
100.0	112.000	177.000	332.000	193.000	170.000
102.5	148.000	216.000	459.000	341.000	271.000
105.0	183.000	258.000	532.000	556.000	458.000
107.5	218.000	299.000	577.000	750.000	699.000
110.0	253.000	337.000	617.000	864.000	873.000
112.5	288.000	374.000	664.000	939.000	977.000
115.0	324.000	409.000	720.000	993.000	1048.000
117.5	360.000	444.000	781.000	1044.000	1103.000
120.0	396.000	481.000	831.000	1098.000	1158.000
122.5	429.000	512.000	867.000	1174.000	1216.000
125.0	460.000	542.000	887.000	1257.000	1299.000
127.5	489.000	570.000	899.000	1313.000	1391.000
130.0	513.000	594.000	906.000	1336.000	1457.000
132.5	537.000	616.000	908.000	1327.000	1478.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-S-835-WSO-DSO-ABL-8H-ITL89456-ITL94139.206.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	558.000	634.000	907.000	1299.000	1457.000
<b>137.5</b>	577.000	651.000	904.000	1261.000	1413.000
<b>140.0</b>	596.000	666.000	899.000	1219.000	1357.000
<b>142.5</b>	614.000	680.000	892.000	1172.000	1297.000
<b>145.0</b>	633.000	693.000	885.000	1127.000	1236.000
<b>147.5</b>	649.000	703.000	877.000	1081.000	1174.000
<b>150.0</b>	665.000	714.000	867.000	1040.000	1116.000
<b>152.5</b>	680.000	722.000	855.000	1001.000	1062.000
<b>155.0</b>	694.000	728.000	843.000	963.000	1012.000
<b>157.5</b>	707.000	736.000	832.000	928.000	967.000
<b>160.0</b>	718.000	741.000	819.000	894.000	925.000
<b>162.5</b>	728.000	745.000	806.000	865.000	886.000
<b>165.0</b>	736.000	749.000	793.000	837.000	853.000
<b>167.5</b>	743.000	752.000	783.000	813.000	824.000
<b>170.0</b>	749.000	755.000	776.000	794.000	801.000
<b>172.5</b>	752.000	757.000	768.000	778.000	784.000
<b>175.0</b>	756.000	758.000	763.000	768.000	770.000
<b>177.5</b>	758.000	758.000	760.000	760.000	761.000
<b>180.0</b>	759.000	759.000	759.000	759.000	759.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-S-835-WSO-DSO-ABL-8H-ITL89456-ITL94139.206.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	178.00	N.A.	3.30
0-30	381.83	N.A.	7.10
0-40	625.66	N.A.	11.70
0-60	1079.72	N.A.	20.20
0-80	1316.27	N.A.	24.60
0-90	1340.2	N.A.	25.00
10-90	1294.79	N.A.	24.20
20-40	447.66	N.A.	8.40
20-50	692.11	N.A.	12.90
40-70	605.71	N.A.	11.30
60-80	236.56	N.A.	4.40
70-80	84.90	N.A.	1.60
80-90	23.92	N.A.	0.40
90-110	525.79	N.A.	9.80
90-120	1219.49	N.A.	22.80
90-130	2012.46	N.A.	37.60
90-150	3325.54	N.A.	62.10
90-180	4017.8	N.A.	75.00
110-180	3492.02	N.A.	65.20
0-180	5358.00	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	91.71
100-110	434.08
110-120	693.70
120-130	792.97
130-140	741.14
140-150	571.94
150-160	393.14
160-170	225.92
170-180	73.20

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

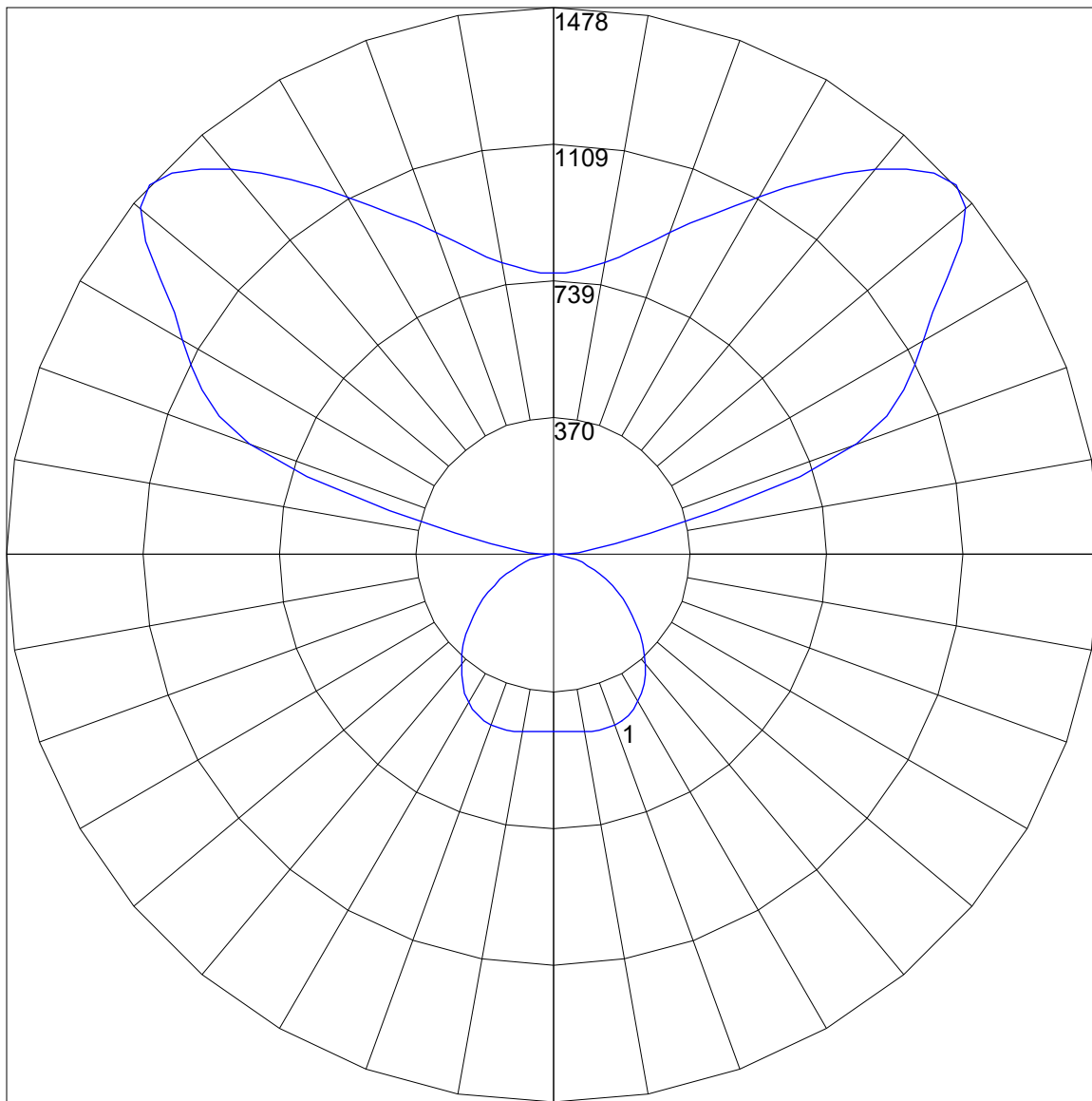
Effective Floor Cavity Reflectance 0.20

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	101	101	101	101	90	90	90	90	69	69	69	51	51	51	33	33	33	25
1	92	88	84	81	82	79	75	73	61	59	57	44	43	42	29	29	28	21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	26	25	24	18
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15
4	70	60	52	46	62	53	47	42	41	37	33	31	28	25	20	19	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	39	34	52	42	36	31	33	28	25	25	21	19	17	15	13	10
7	54	42	35	29	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	38	31	26	45	35	28	24	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

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## POLAR GRAPH



Maximum Candela = 1478 Located At Horizontal Angle = 90, Vertical Angle = 132.5

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