

# 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-S-B-835-WSO-DSO-ABL-8H-ITL89456-ITL94139.215.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-ITL94139.215 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]06/23/2021

[MANUFAC]FINELITE, INC.

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

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 32.0 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 34.3 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]3329

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3329
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	32
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	7.369	12.692	12.692	12.282	12.282
95.0	19.242	33.981	33.981	28.249	27.840
97.5	32.343	55.679	68.371	49.129	46.263
100.0	45.854	72.465	135.923	79.016	69.599
102.5	60.592	88.432	187.918	139.608	110.950
105.0	74.922	105.627	217.805	227.631	187.509
107.5	89.251	122.413	236.228	307.056	286.176
110.0	103.580	137.970	252.605	353.728	357.413
112.5	117.909	153.119	271.847	384.434	399.992
115.0	132.648	167.448	294.774	406.542	429.060
117.5	147.387	181.777	319.748	427.422	451.577
120.0	162.126	196.925	340.218	449.530	474.094
122.5	175.636	209.617	354.957	480.645	497.840
125.0	188.328	221.899	363.145	514.626	531.821
127.5	200.201	233.363	368.058	537.553	569.486
130.0	210.026	243.188	370.924	546.969	596.507
132.5	219.852	252.195	371.743	543.284	605.105

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-B-835-WSO-DSO-ABL-8H-ITL89456-ITL94139.215.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	228.450	259.565	371.333	531.821	596.507
<b>137.5</b>	236.228	266.525	370.105	516.264	578.494
<b>140.0</b>	244.007	272.666	368.058	499.068	555.567
<b>142.5</b>	251.376	278.397	365.192	479.826	531.002
<b>145.0</b>	259.155	283.720	362.326	461.403	506.028
<b>147.5</b>	265.706	287.814	359.051	442.570	480.645
<b>150.0</b>	272.256	292.317	354.957	425.784	456.899
<b>152.5</b>	278.397	295.593	350.044	409.817	434.791
<b>155.0</b>	284.129	298.049	345.131	394.260	414.321
<b>157.5</b>	289.451	301.324	340.627	379.931	395.897
<b>160.0</b>	293.955	303.371	335.305	366.011	378.702
<b>162.5</b>	298.049	305.009	329.983	354.138	362.736
<b>165.0</b>	301.324	306.647	324.661	342.675	349.225
<b>167.5</b>	304.190	307.875	320.567	332.849	337.352
<b>170.0</b>	306.647	309.103	317.701	325.070	327.936
<b>172.5</b>	307.875	309.922	314.425	318.519	320.976
<b>175.0</b>	309.512	310.331	312.378	314.425	315.244
<b>177.5</b>	310.331	310.331	311.150	311.150	311.560
<b>180.0</b>	310.741	310.741	310.741	310.741	310.741

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-B-835-WSO-DSO-ABL-8H-ITL89456-ITL94139.215.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	223.70	N.A.	6.70
0-30	479.85	N.A.	14.40
0-40	786.28	N.A.	23.60
0-60	1356.9	N.A.	40.80
0-80	1654.18	N.A.	49.70
0-90	1684.25	N.A.	50.60
10-90	1627.18	N.A.	48.90
20-40	562.58	N.A.	16.90
20-50	869.79	N.A.	26.10
40-70	761.20	N.A.	22.90
60-80	297.29	N.A.	8.90
70-80	106.70	N.A.	3.20
80-90	30.07	N.A.	0.90
90-110	215.26	N.A.	6.50
90-120	499.27	N.A.	15.00
90-130	823.92	N.A.	24.70
90-150	1361.5	N.A.	40.90
90-180	1644.92	N.A.	49.40
110-180	1429.66	N.A.	42.90
0-180	3329.17	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	37.55
100-110	177.71
110-120	284.01
120-130	324.65
130-140	303.43
140-150	234.16
150-160	160.96
160-170	92.50
170-180	29.97

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

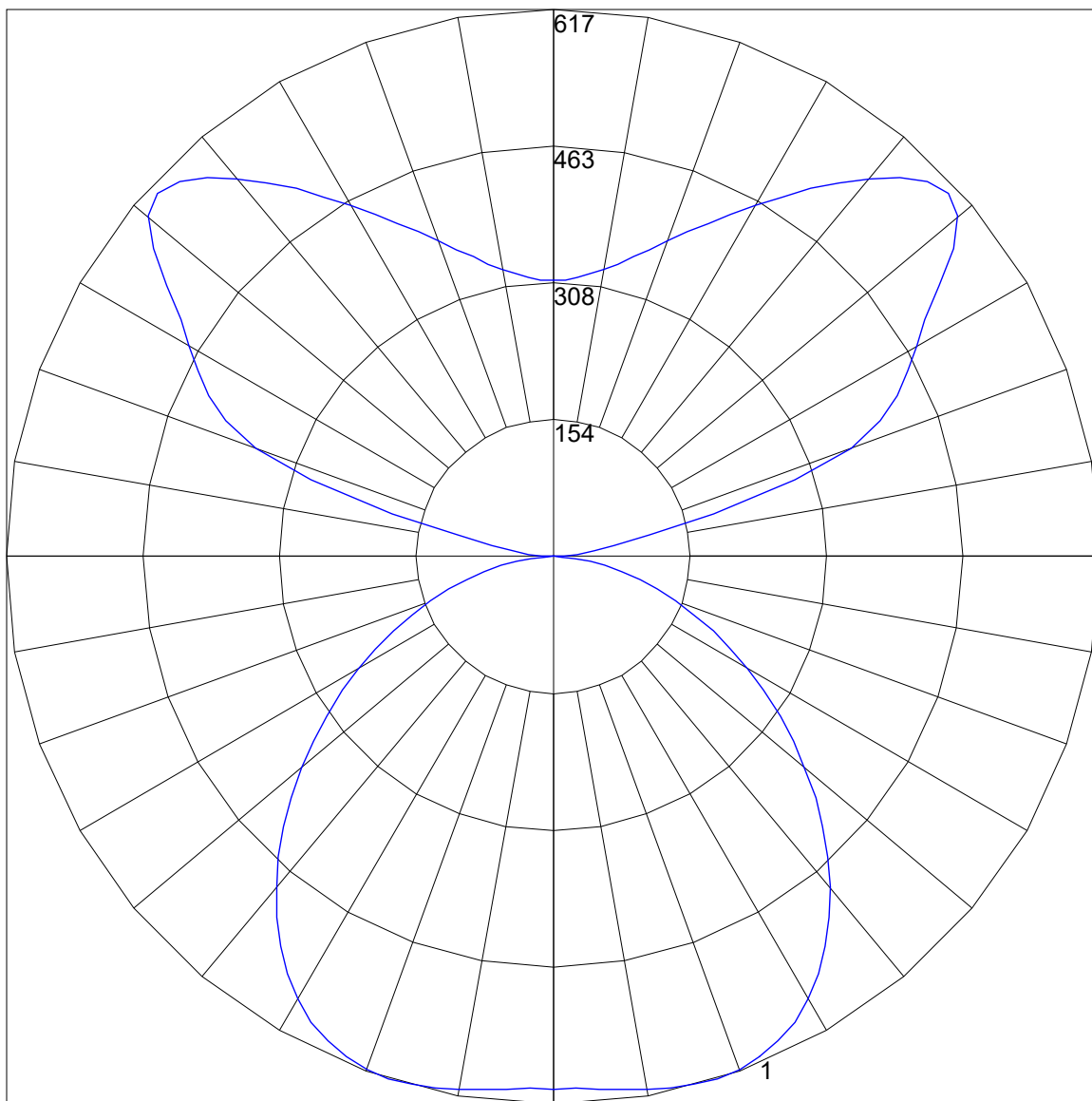
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	43
2	89	82	76	70	82	76	70	66	64	60	57	54	51	48	44	42	40	36
3	81	72	64	59	75	67	60	55	57	52	48	48	44	41	39	36	34	30
4	74	64	56	49	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	48	42	63	53	45	40	45	39	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	23	20	17
8	54	42	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18	16
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	15	13

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## POLAR GRAPH



Maximum Candela = 616.901 Located At Horizontal Angle = 90, Vertical Angle = 17.5

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