

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-H-835-WSO-DSO-ITL89456-ITL94139.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-ITL94139.004 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]12/15/2020

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 63.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 64.9 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]6564

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6564
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	63.7
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	10756	13595	13962
55	9780	12518	12518
65	8774	11122	10814
75	7803	9491	8989
85	6775	7182	6504

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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	907.008	907.008	907.008	907.008	907.008
2.5	905.452	905.452	906.230	907.785	907.785
5.0	900.785	901.562	905.452	909.341	910.897
7.5	892.228	895.339	902.340	910.897	915.564
10.0	881.338	885.227	900.785	917.120	922.565
12.5	868.114	872.781	899.229	921.787	928.010
15.0	850.222	858.001	894.562	923.343	931.122
17.5	831.553	841.666	888.338	923.343	932.678
20.0	808.217	822.997	880.560	919.454	929.566
22.5	783.325	801.216	867.336	910.897	922.565
25.0	755.321	779.435	852.556	899.229	910.119
27.5	727.317	756.099	835.443	882.893	893.784
30.0	696.980	731.207	813.662	861.113	869.669
32.5	665.865	703.203	791.104	836.221	843.221
35.0	633.194	673.644	765.433	805.883	810.551
37.5	601.301	644.084	735.096	772.434	774.768
40.0	567.074	612.969	702.425	736.652	735.096
42.5	534.403	580.298	668.976	696.202	693.091
45.0	500.954	546.849	633.194	654.975	650.307
47.5	468.284	513.400	594.300	612.191	607.524
50.0	434.057	479.174	554.628	567.852	560.073
52.5	400.608	443.391	514.178	524.291	516.512
55.0	369.493	408.387	472.951	479.174	472.951
57.5	336.822	373.382	431.723	435.613	425.500
60.0	305.707	337.600	390.495	393.607	383.495
62.5	276.147	303.373	350.824	350.046	342.267
65.0	244.254	270.702	309.596	308.818	301.039
67.5	216.250	237.253	270.702	268.368	260.590
70.0	187.469	205.360	233.364	229.475	222.474
72.5	159.465	174.245	196.804	192.914	186.691
75.0	133.017	143.908	161.799	157.910	153.242
77.5	108.125	115.904	128.350	124.461	120.571
80.0	84.789	88.678	98.013	93.346	90.234
82.5	62.230	63.786	68.453	65.342	63.008
85.0	38.894	40.450	41.228	38.894	37.338
87.5	17.891	17.891	16.335	15.558	14.002
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-H-835-WSO-DSO-ITL89456-ITL94139.004.IES****CANDELA TABULATION - (Cont.)**

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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-H-835-WSO-DSO-ITL89456-ITL94139.004.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	338.20	N.A.	5.20
0-30	725.47	N.A.	11.10
0-40	1188.76	N.A.	18.10
0-60	2051.46	N.A.	31.30
0-80	2500.92	N.A.	38.10
0-90	2546.37	N.A.	38.80
10-90	2460.09	N.A.	37.50
20-40	850.56	N.A.	13.00
20-50	1315.01	N.A.	20.00
40-70	1150.84	N.A.	17.50
60-80	449.46	N.A.	6.80
70-80	161.32	N.A.	2.50
80-90	45.45	N.A.	0.70
90-110	525.79	N.A.	8.00
90-120	1219.49	N.A.	18.60
90-130	2012.46	N.A.	30.70
90-150	3325.54	N.A.	50.70
90-180	4017.8	N.A.	61.20
110-180	3492.02	N.A.	53.20
0-180	6564.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	86.28
10-20	251.92
20-30	387.27
30-40	463.29
40-50	464.46
50-60	398.24
60-70	288.14
70-80	161.32
80-90	45.45
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

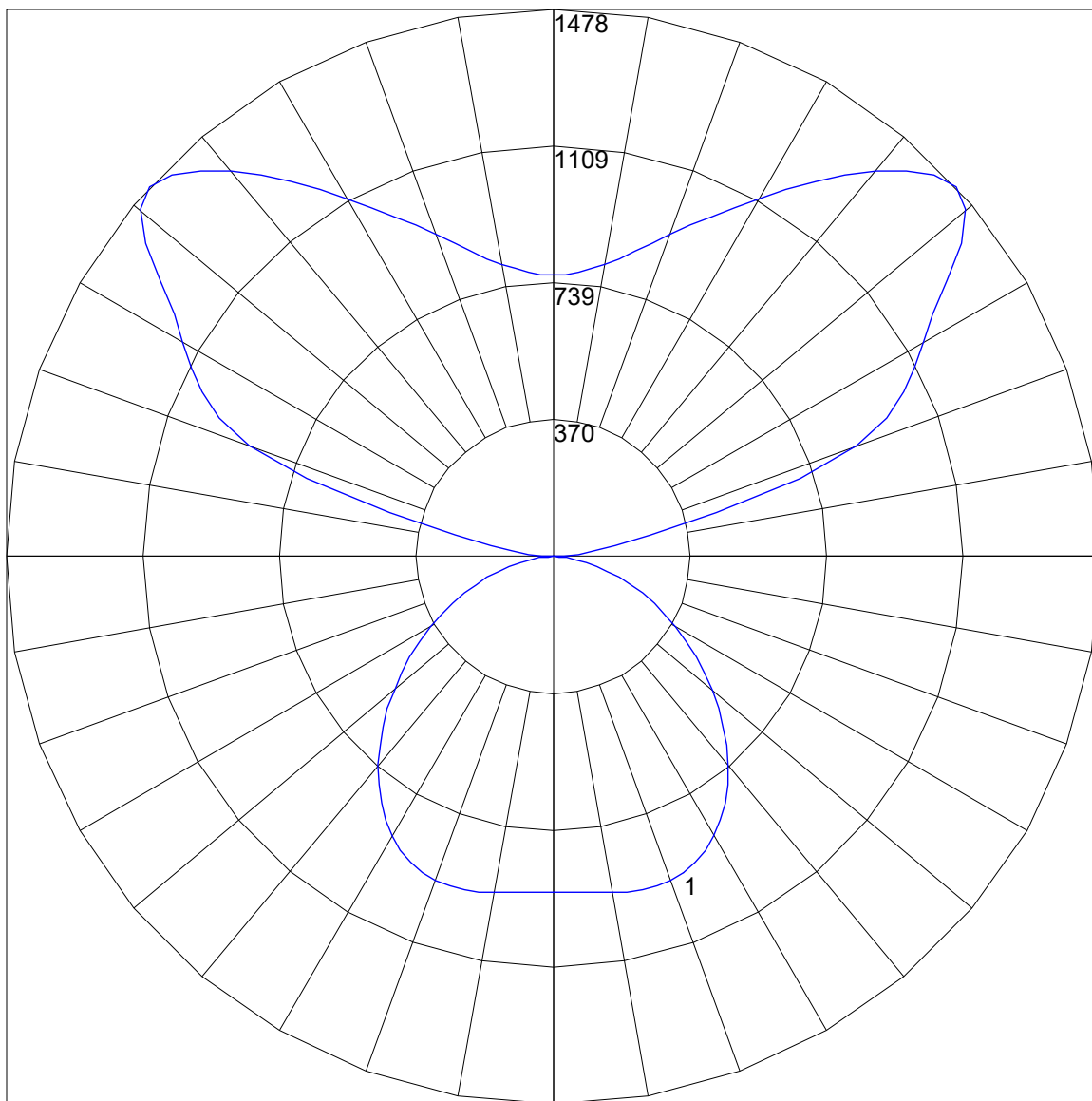
Effective Floor Cavity Reflectance 0.20

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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	40	39	33
2	87	79	73	68	79	72	67	63	59	55	52	47	44	42	36	34	33	27
3	79	70	63	57	72	64	57	52	52	48	44	41	38	36	32	29	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	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	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	16	14	12
9	48	36	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	16	14	12	10

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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.)