

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-8-35-ITL85132.010.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85132.010 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/11/15
[ISSUE DATE]04/26/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-2-ID-4ft-B-S-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 32.9 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 35.5 WATTS
[ABSOLUTE LUMENS]3262
[OTHER]see www.finelite.com for source file ITL85132. 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3262
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	32.9
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	6583	6311	6003
55	5992	5699	5407
65	5412	5132	4882
75	4874	4610	4418
85	4278	4136	3922

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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	537.895	537.895	537.895	537.895	537.895
2.5	536.667	537.485	537.076	537.076	537.076
5.0	534.620	535.029	534.211	533.801	533.801
7.5	530.117	530.526	529.298	528.889	528.889
10.0	524.386	523.567	522.749	522.339	521.520
12.5	516.608	514.971	514.152	512.924	511.287
15.0	508.012	504.737	503.918	501.462	499.415
17.5	497.368	492.865	491.637	487.953	485.497
20.0	485.088	479.766	477.719	473.216	469.532
22.5	470.760	465.029	462.573	457.661	453.158
25.0	456.023	449.474	445.789	440.468	435.555
27.5	439.240	433.509	429.006	422.047	416.725
30.0	422.047	415.906	410.585	402.807	397.485
32.5	403.626	397.485	391.754	383.158	379.064
35.0	385.614	378.655	372.515	363.099	359.006
37.5	366.374	359.825	352.865	343.860	339.357
40.0	346.725	339.766	333.626	323.392	319.298
42.5	326.667	320.117	313.567	303.333	299.240
45.0	306.608	300.468	293.918	283.684	279.591
47.5	286.550	280.409	273.860	264.035	260.351
50.0	266.082	260.351	254.210	244.386	241.111
52.5	246.023	240.702	234.561	225.556	222.281
55.0	226.374	221.871	215.322	207.135	204.269
57.5	207.135	203.041	196.491	189.123	186.667
60.0	187.485	183.801	178.070	171.111	169.064
62.5	169.064	165.380	160.059	154.737	152.281
65.0	150.643	147.368	142.865	137.953	135.906
67.5	133.450	129.766	126.491	121.579	119.942
70.0	115.848	113.392	109.708	106.433	104.386
72.5	99.064	97.017	94.152	91.287	89.649
75.0	83.099	81.053	78.597	76.550	75.322
77.5	67.544	65.906	64.269	62.632	60.994
80.0	52.398	51.579	49.941	48.714	47.895
82.5	38.070	37.252	36.433	35.614	34.795
85.0	24.561	24.152	23.743	23.333	22.515
87.5	11.053	10.643	11.053	11.462	11.053
90.0	0.000	0.000	0.000	0.000	0.000
92.5	15.439	15.439	15.439	16.983	16.983
95.0	36.538	34.994	34.994	35.509	36.023
97.5	57.637	56.094	55.064	55.579	55.579
100.0	79.251	76.678	76.678	76.678	76.164
102.5	101.895	99.836	98.807	98.292	98.292
105.0	125.567	124.023	121.450	120.936	120.421
107.5	149.754	148.210	145.123	144.608	144.094
110.0	174.971	173.427	170.854	169.825	168.281
112.5	201.216	198.643	197.099	194.526	192.982
115.0	227.462	225.918	224.889	219.743	218.714
117.5	255.251	252.678	252.678	246.503	245.474
120.0	283.555	279.439	280.468	274.292	272.234
122.5	310.316	306.199	308.257	303.111	299.509
125.0	340.164	333.988	336.047	330.901	328.327
127.5	369.497	362.807	363.836	359.719	358.690
130.0	398.316	391.626	392.655	387.509	388.023
132.5	427.135	419.930	421.474	416.327	416.327

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CANDELA TABULATION - (Cont.)

135.0	454.924	448.234	450.292	445.661	445.661
137.5	483.228	476.538	478.596	474.479	473.965
140.0	511.532	504.842	506.386	503.813	502.269
142.5	538.292	531.088	533.146	530.573	528.515
145.0	565.567	557.848	559.906	557.848	554.246
147.5	590.784	583.064	585.638	582.550	578.947
150.0	614.971	607.251	610.339	606.737	603.649
152.5	638.129	630.409	633.497	630.409	627.322
155.0	660.257	652.538	656.140	653.053	649.965
157.5	679.298	672.094	676.211	673.123	670.035
160.0	697.825	691.135	694.737	691.649	688.561
162.5	713.778	708.117	710.690	708.632	706.573
165.0	728.187	723.041	724.585	723.556	722.012
167.5	738.994	735.906	736.936	735.906	735.392
170.0	748.772	747.228	747.743	746.713	746.199
172.5	757.006	756.491	756.491	755.977	755.977
175.0	762.667	762.667	762.667	762.667	762.152
177.5	765.754	766.269	766.269	766.269	765.754
180.0	767.813	767.813	767.813	767.813	767.813

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	192.30	N.A.	5.90
0-30	397.22	N.A.	12.20
0-40	629.65	N.A.	19.30
0-60	1047.9	N.A.	32.10
0-80	1273.38	N.A.	39.00
0-90	1299.56	N.A.	39.80
10-90	1248.92	N.A.	38.30
20-40	437.35	N.A.	13.40
20-50	663.24	N.A.	20.30
40-70	560.03	N.A.	17.20
60-80	225.48	N.A.	6.90
70-80	83.69	N.A.	2.60
80-90	26.18	N.A.	0.80
90-110	169.42	N.A.	5.20
90-120	390.97	N.A.	12.00
90-130	689.80	N.A.	21.10
90-150	1385.17	N.A.	42.50
90-180	1962.43	N.A.	60.20
110-180	1793.01	N.A.	55.00
0-180	3261.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.64
10-20	141.66
20-30	204.91
30-40	232.44
40-50	225.88
50-60	192.36
60-70	141.78
70-80	83.69
80-90	26.18
90-100	39.66
100-110	129.76
110-120	221.56
120-130	298.83
130-140	346.11
140-150	349.26
150-160	300.94
160-170	204.02
170-180	72.31

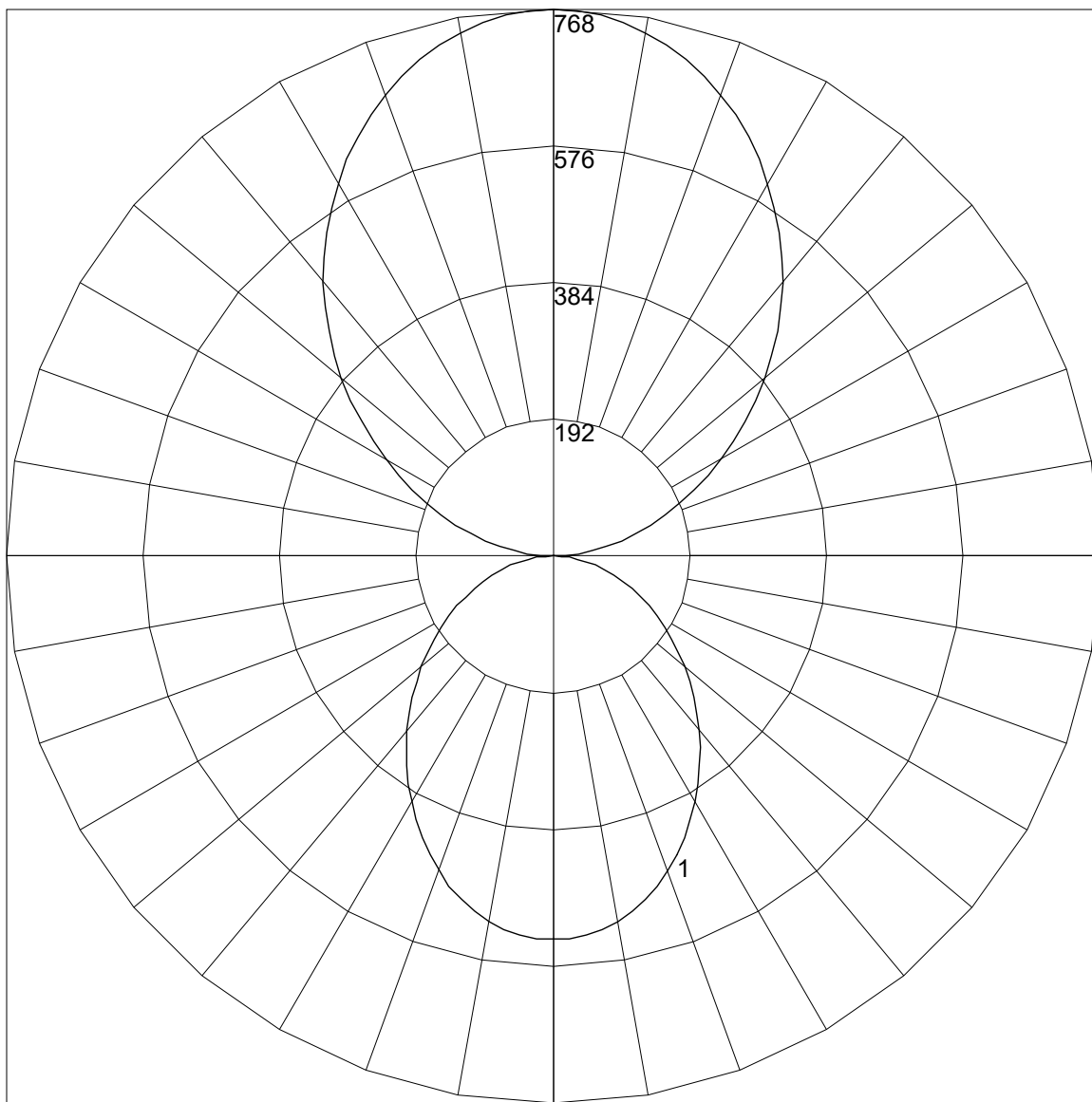
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	78	78	78	62	62	62	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	21	18
6	61	50	42	36	56	46	39	33	38	32	29	31	27	24	24	21	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	23	20	23	20	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 767.813 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)