

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-WW-D-K-4FT-S-835-ITL85137.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85137.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/15/15

[ISSUEDATE]02/10/17

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-2-WW-D-K-4ft-S-835

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 8.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 10.2 WATTS

[ABSOLUTE]LUMENS]614

[OTHER]see www.finelite.com for source file ITL85137. 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	614
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	8.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.90
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.03 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6430	7412	4702
55	4062	5900	4355
65	2894	4119	3911
75	2973	3177	3324
85	3356	3321	2544

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	198.538	198.538	198.538	198.538	198.538	198.538	198.538	198.538	198.538
2.5	232.515	228.830	222.690	211.228	198.129	185.029	174.795	168.655	166.199
5.0	266.901	261.988	248.070	224.327	197.719	173.158	154.737	143.684	140.000
7.5	297.193	292.281	272.222	237.427	196.901	161.287	137.134	124.035	119.942
10.0	322.573	316.842	292.690	248.889	195.673	150.234	122.807	109.708	106.023
12.5	341.403	335.673	309.474	259.123	194.035	140.409	111.345	99.474	96.199
15.0	353.275	349.181	323.392	267.719	192.398	130.994	102.749	92.105	89.649
17.5	361.053	357.368	332.398	274.678	189.942	122.807	95.789	87.193	85.146
20.0	364.737	361.462	337.719	280.000	187.485	115.439	90.468	83.099	81.462
22.5	364.327	361.462	339.766	283.275	184.211	108.889	85.965	79.825	78.596
25.0	361.053	359.006	339.357	284.503	180.936	102.749	82.281	76.959	75.322
27.5	355.731	353.684	336.082	283.684	177.251	97.427	78.596	74.094	72.456
30.0	348.772	346.725	330.351	281.228	172.749	92.105	75.322	70.819	69.181
32.5	338.129	337.310	322.573	276.725	167.836	87.602	72.456	67.544	65.906
35.0	325.439	325.029	312.749	269.766	162.515	83.099	68.772	64.269	62.222
37.5	309.064	310.292	301.287	261.579	156.374	78.596	65.497	60.585	58.129
40.0	289.006	292.281	288.596	252.164	149.825	74.503	61.813	56.491	53.626
42.5	265.263	271.404	273.860	241.111	143.275	70.000	58.129	51.579	48.713
45.0	237.836	248.070	257.485	228.830	136.316	65.906	54.444	46.667	42.982
47.5	212.865	222.690	240.292	215.731	128.129	61.813	49.942	41.345	38.480
50.0	184.211	196.901	220.643	201.813	119.942	57.719	45.439	36.433	33.977
52.5	157.193	170.702	200.175	187.076	111.345	53.626	40.526	31.930	29.474
55.0	133.450	146.550	178.480	171.930	102.749	49.123	35.205	27.836	25.380
57.5	114.211	125.263	158.012	156.784	94.561	44.620	30.702	23.333	21.287
60.0	99.064	107.251	137.544	141.637	85.556	40.117	26.199	19.240	17.193
62.5	88.421	93.333	119.123	126.901	76.959	35.614	22.105	15.556	13.509
65.0	80.234	83.509	102.339	112.982	68.363	30.702	17.602	11.462	9.825
67.5	74.912	75.731	88.012	99.064	60.175	26.199	13.509	7.778	6.140
70.0	71.228	70.409	76.140	85.556	51.988	21.287	9.825	4.503	2.865
72.5	67.544	65.906	66.725	73.275	43.801	16.374	6.140	1.228	0.409
75.0	64.678	62.222	59.357	61.813	36.023	12.281	2.865	0.000	0.000
77.5	61.813	58.947	53.216	51.988	28.655	7.778	0.409	0.000	0.000
80.0	58.538	55.673	48.713	42.164	22.105	4.094	0.000	0.000	0.000
82.5	54.854	51.988	44.211	34.386	15.965	0.819	0.000	0.000	0.000
85.0	50.760	47.895	39.708	27.427	9.825	0.000	0.000	0.000	0.000
87.5	44.620	42.164	34.386	21.696	4.912	0.000	0.000	0.000	0.000
90.0	38.070	35.614	27.836	15.556	0.000	0.000	0.000	0.000	0.000
92.5	31.520	28.655	20.877	8.596	0.000	0.000	0.000	0.000	0.000
95.0	24.561	22.105	13.918	2.456	0.000	0.000	0.000	0.000	0.000
97.5	18.012	15.965	7.778	0.000	0.000	0.000	0.000	0.000	0.000
100.0	11.871	9.415	2.456	0.000	0.000	0.000	0.000	0.000	0.000
102.5	5.731	3.684	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.819	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	78.73	N.A.	12.80
0-30	173.34	N.A.	28.20
0-40	288.70	N.A.	47.00
0-60	490.75	N.A.	79.90
0-80	585.60	N.A.	95.40
0-90	606.05	N.A.	98.70
10-90	586.70	N.A.	95.60
20-40	209.97	N.A.	34.20
20-50	323.18	N.A.	52.60
40-70	261.08	N.A.	42.50
60-80	94.85	N.A.	15.40
70-80	35.82	N.A.	5.80
80-90	20.46	N.A.	3.30
90-110	7.89	N.A.	1.30
90-120	7.89	N.A.	1.30
90-130	7.89	N.A.	1.30
90-150	7.89	N.A.	1.30
90-180	7.89	N.A.	1.30
110-180	0.00	N.A.	0.00
0-180	613.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	19.36
10-20	59.37
20-30	94.61
30-40	115.36
40-50	113.21
50-60	88.83
60-70	59.03
70-80	35.82
80-90	20.46
90-100	7.35
100-110	0.53
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

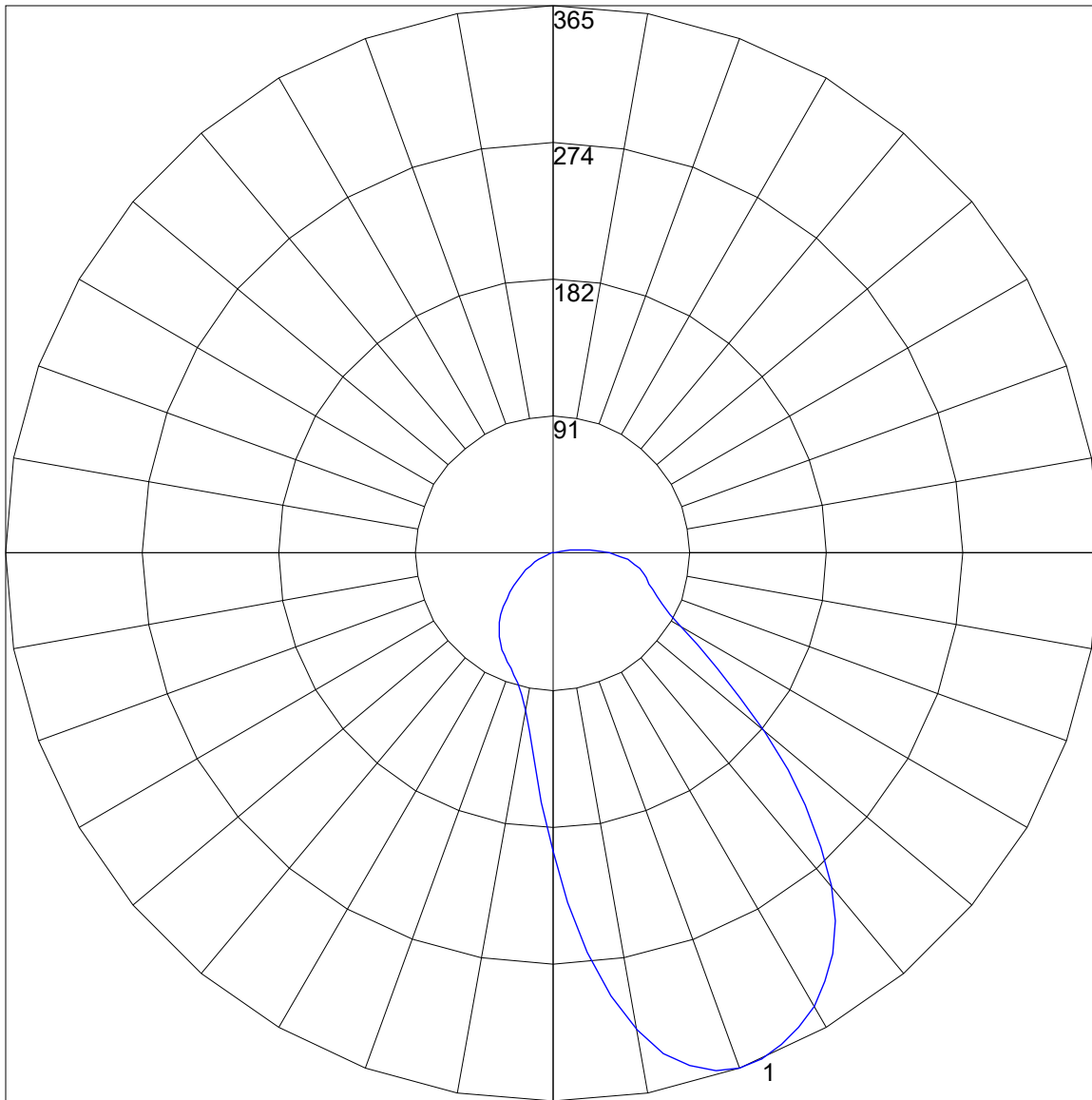
Effective Floor Cavity Reflectance 0.20

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	108	103	99	95	105	101	97	94	97	93	90	92	90	87	89	87	85	82
2	99	91	84	78	96	89	82	77	85	80	75	81	77	73	78	75	71	69
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	70	65	61	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	62	57	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	41	37	47	41	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	36	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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POLAR GRAPH



Maximum Candela = 364.737 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)