

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-6-R-4FT-B-8-TW-ITL86098.902.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL86098.902 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]11/30/15
[ISSUE DATE]04/28/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-6-R-4ft-B-8-TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 20.6 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 22.0 WATTS
[ABSOLUTE LUMENS]1939
[OTHER]see www.finelite.com for source file ITL86098. 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	1939
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	20.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.43 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3915	3902	3874
55	3727	3711	3694
65	3521	3491	3476
75	3252	3227	3227
85	2974	2938	2974

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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	699.883	699.883	699.883	699.883	699.883
2.5	698.854	698.854	698.854	699.368	699.368
5.0	696.281	696.281	696.281	696.795	696.795
7.5	692.164	692.164	692.164	692.164	692.164
10.0	686.503	684.959	685.474	686.503	684.959
12.5	679.298	676.211	678.269	679.298	677.240
15.0	669.520	665.404	668.491	669.006	665.918
17.5	659.228	653.567	657.684	657.170	654.082
20.0	646.877	640.702	644.304	643.275	640.187
22.5	630.924	624.749	628.866	628.351	626.292
25.0	613.942	608.795	613.427	611.883	609.825
27.5	596.444	591.298	595.930	593.871	591.813
30.0	577.918	573.287	576.374	574.830	573.287
32.5	557.848	553.731	556.819	554.760	553.731
35.0	536.749	532.117	534.690	533.146	532.117
37.5	514.620	511.018	513.591	512.047	511.018
40.0	491.462	488.374	490.947	488.889	488.374
42.5	468.819	465.216	467.789	465.731	465.216
45.0	445.146	441.544	443.602	442.058	440.515
47.5	419.930	416.842	419.415	416.842	416.327
50.0	394.713	391.626	393.170	391.626	391.111
52.5	369.497	366.409	367.953	365.895	366.409
55.0	343.766	340.678	342.222	340.164	340.678
57.5	318.035	314.947	315.977	314.433	314.947
60.0	291.789	288.702	289.731	288.702	288.702
62.5	265.029	263.485	264.000	262.456	262.456
65.0	239.298	236.725	237.240	236.725	236.211
67.5	212.538	210.480	210.994	210.480	209.965
70.0	186.807	184.749	185.263	184.749	184.234
72.5	161.076	159.018	159.532	159.018	159.018
75.0	135.345	134.316	134.316	133.801	134.316
77.5	111.158	110.129	110.643	110.129	111.158
80.0	87.485	86.456	86.971	86.971	87.485
82.5	64.842	64.327	63.813	63.813	64.327
85.0	41.684	41.170	41.170	40.655	41.684
87.5	19.041	19.041	19.041	18.526	19.041
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	254.47	N.A.	13.10
0-30	536.12	N.A.	27.60
0-40	870.15	N.A.	44.90
0-60	1516.56	N.A.	78.20
0-80	1893.79	N.A.	97.60
0-90	1939.42	N.A.	100.00
10-90	1873.28	N.A.	96.60
20-40	615.67	N.A.	31.70
20-50	956.89	N.A.	49.30
40-70	881.14	N.A.	45.40
60-80	377.23	N.A.	19.50
70-80	142.51	N.A.	7.30
80-90	45.63	N.A.	2.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1939.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	66.14
10-20	188.33
20-30	281.65
30-40	334.02
40-50	341.22
50-60	305.20
60-70	234.72
70-80	142.51
80-90	45.63
90-100	0.00
100-110	0.00
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

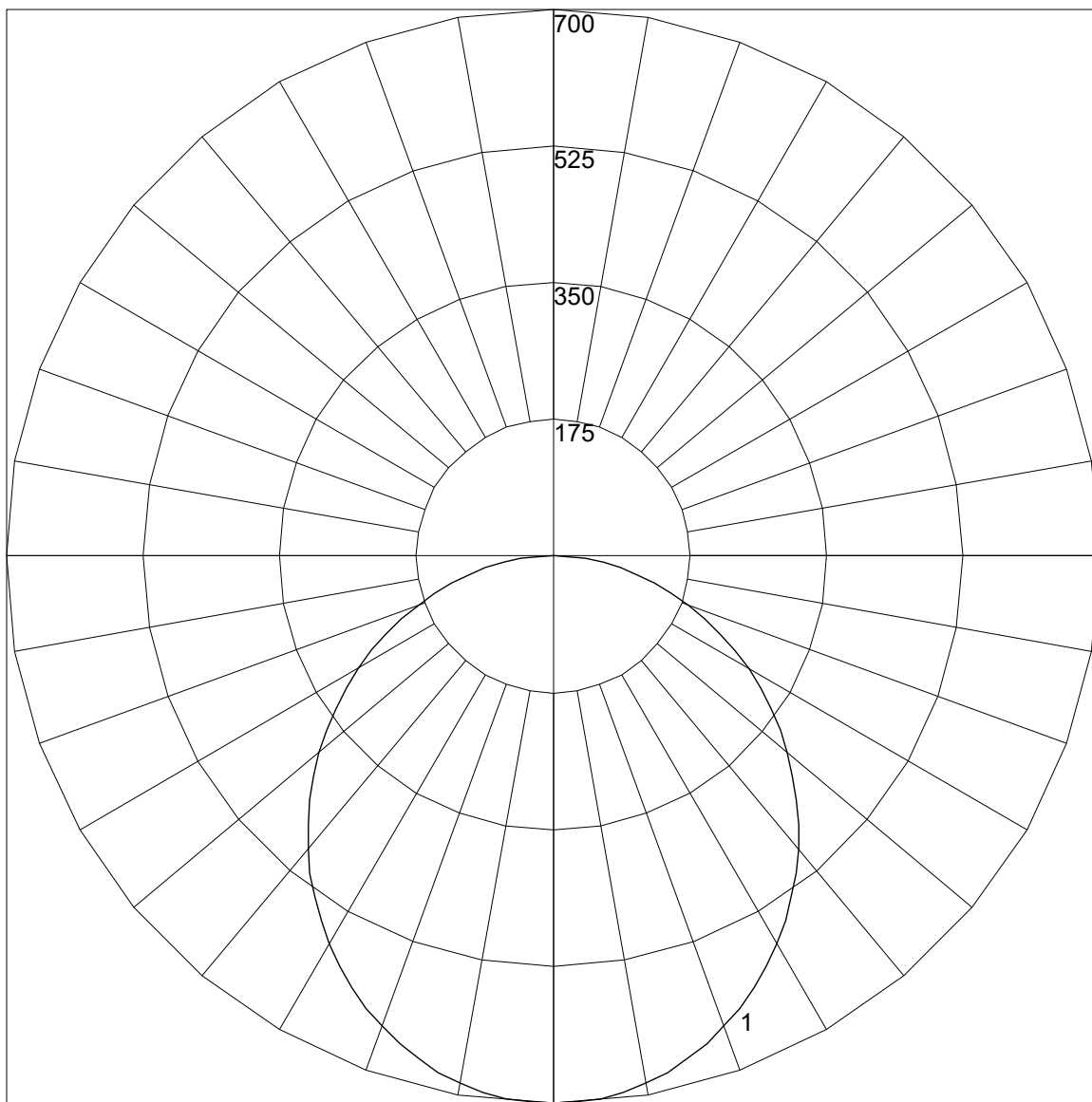
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 699.883 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)