

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-H-8-35-ITL86098.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL86098.003
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]11/30/15
[ISSUEDATE]04/26/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-6-R-4ft-H-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.8 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.6 WATTS
[ABSOLUTE]LUMENS]2931
[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	2931
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	28.8
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	5917	5897	5856
55	5633	5608	5583
65	5322	5276	5253
75	4915	4878	4878
85	4495	4440	4495

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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	1057.778	1057.778	1057.778	1057.778	1057.778
2.5	1056.222	1056.222	1056.222	1057.000	1057.000
5.0	1052.333	1052.333	1052.333	1053.111	1053.111
7.5	1046.111	1046.111	1046.111	1046.111	1046.111
10.0	1037.556	1035.222	1036.000	1037.556	1035.222
12.5	1026.667	1022.000	1025.111	1026.667	1023.556
15.0	1011.889	1005.667	1010.333	1011.111	1006.444
17.5	996.333	987.778	994.000	993.222	988.556
20.0	977.667	968.333	973.778	972.222	967.556
22.5	953.556	944.222	950.444	949.667	946.556
25.0	927.889	920.111	927.111	924.778	921.667
27.5	901.444	893.667	900.667	897.556	894.444
30.0	873.444	866.444	871.111	868.778	866.444
32.5	843.111	836.889	841.556	838.444	836.889
35.0	811.222	804.222	808.111	805.778	804.222
37.5	777.778	772.333	776.222	773.889	772.333
40.0	742.778	738.111	742.000	738.889	738.111
42.5	708.556	703.111	707.000	703.889	703.111
45.0	672.778	667.333	670.444	668.111	665.778
47.5	634.667	630.000	633.889	630.000	629.222
50.0	596.556	591.889	594.222	591.889	591.111
52.5	558.444	553.778	556.111	553.000	553.778
55.0	519.556	514.889	517.222	514.111	514.889
57.5	480.667	476.000	477.556	475.222	476.000
60.0	441.000	436.333	437.889	436.333	436.333
62.5	400.556	398.222	399.000	396.667	396.667
65.0	361.667	357.778	358.556	357.778	357.000
67.5	321.222	318.111	318.889	318.111	317.333
70.0	282.333	279.222	280.000	279.222	278.444
72.5	243.444	240.333	241.111	240.333	240.333
75.0	204.556	203.000	203.000	202.222	203.000
77.5	168.000	166.444	167.222	166.444	168.000
80.0	132.222	130.667	131.444	131.444	132.222
82.5	98.000	97.222	96.444	96.444	97.222
85.0	63.000	62.222	62.222	61.444	63.000
87.5	28.778	28.778	28.778	28.000	28.778
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	384.60	N.A.	13.10
0-30	810.28	N.A.	27.60
0-40	1315.11	N.A.	44.90
0-60	2292.08	N.A.	78.20
0-80	2862.21	N.A.	97.60
0-90	2931.17	N.A.	100.00
10-90	2831.2	N.A.	96.60
20-40	930.51	N.A.	31.70
20-50	1446.21	N.A.	49.30
40-70	1331.72	N.A.	45.40
60-80	570.13	N.A.	19.50
70-80	215.38	N.A.	7.30
80-90	68.96	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	2931.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	99.97
10-20	284.63
20-30	425.68
30-40	504.83
40-50	515.70
50-60	461.27
60-70	354.75
70-80	215.38
80-90	68.96
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

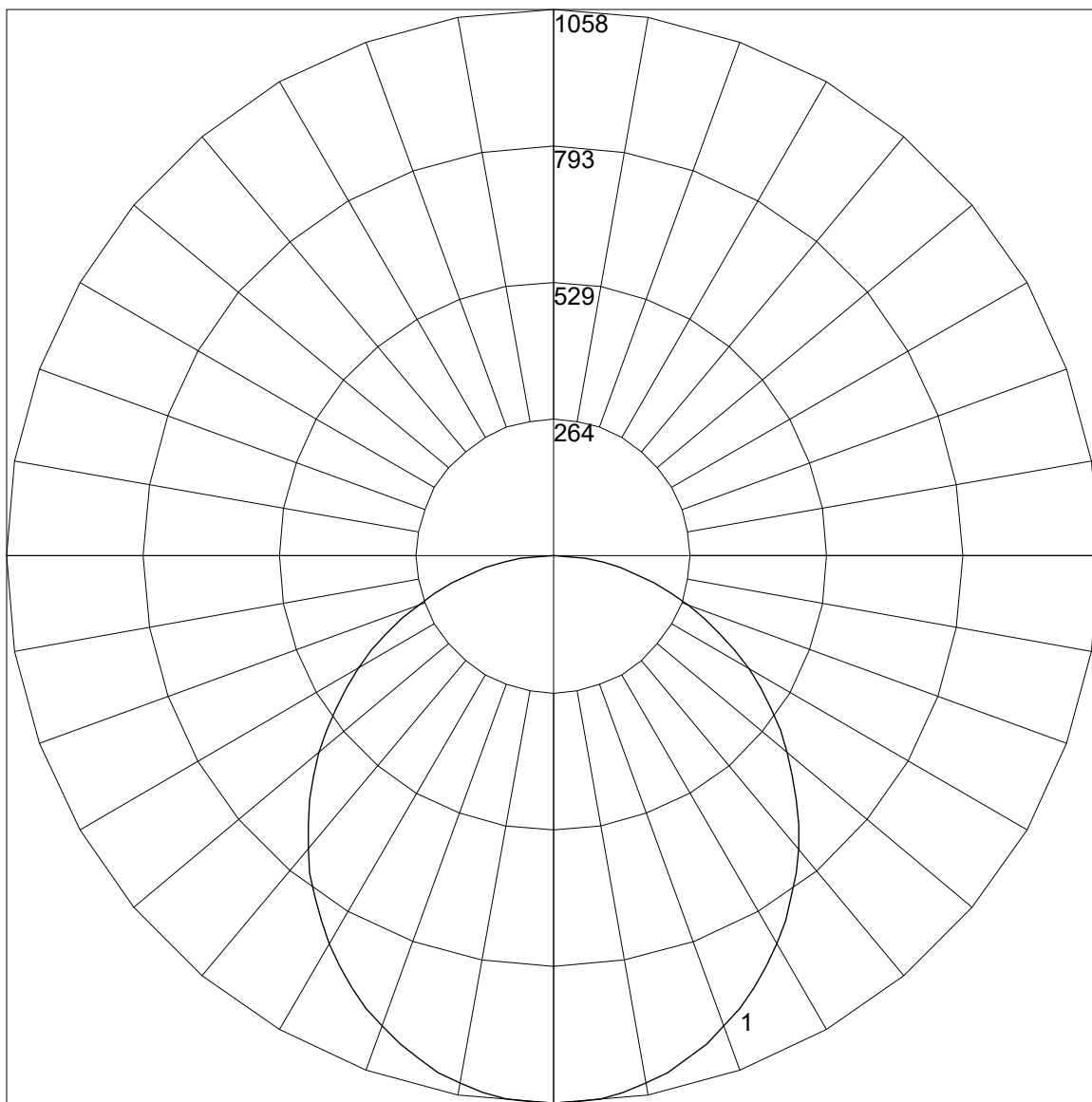
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1057.778 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)