

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-V-837-XXIC-ITL86098.200.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL86098.200 Family Correlation File
[TESTLAB] INDEPENDENT TESTING LABORATORIES, INC.
[ISSUEDATE]11/30/15
[TESTDATE]04/28/2021
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-6-R-4ft-V-837-XXIC
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 35.2 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 35.2 WATTS
[ABSOLUTE]LUMENS]3446
[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	3446
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	35.2
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	6956	6932	6884
55	6622	6593	6563
65	6257	6203	6176
75	5778	5734	5734
85	5285	5220	5285

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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	1243.509	1243.509	1243.509	1243.509	1243.509
2.5	1241.681	1241.681	1241.681	1242.595	1242.595
5.0	1237.109	1237.109	1237.109	1238.023	1238.023
7.5	1229.794	1229.794	1229.794	1229.794	1229.794
10.0	1219.737	1216.993	1217.908	1219.737	1216.993
12.5	1206.936	1201.450	1205.107	1206.936	1203.278
15.0	1189.563	1182.248	1187.734	1188.649	1183.163
17.5	1171.276	1161.218	1168.533	1167.619	1162.133
20.0	1149.332	1138.360	1144.760	1142.932	1137.445
22.5	1120.987	1110.015	1117.330	1116.415	1112.758
25.0	1090.814	1081.670	1089.899	1087.156	1083.499
27.5	1059.726	1050.583	1058.812	1055.154	1051.497
30.0	1026.810	1018.581	1024.067	1021.324	1018.581
32.5	991.150	983.835	989.322	985.664	983.835
35.0	953.662	945.433	950.005	947.262	945.433
37.5	914.345	907.945	912.517	909.773	907.945
40.0	873.200	867.714	872.285	868.628	867.714
42.5	832.968	826.568	831.140	827.482	826.568
45.0	790.909	784.508	788.166	785.423	782.679
47.5	746.106	740.620	745.191	740.620	739.705
50.0	701.303	695.817	698.560	695.817	694.902
52.5	656.500	651.014	653.757	650.099	651.014
55.0	610.783	605.297	608.040	604.382	605.297
57.5	565.065	559.579	561.408	558.665	559.579
60.0	518.434	512.948	514.776	512.948	512.948
62.5	470.888	468.145	469.059	466.316	466.316
65.0	425.171	420.599	421.513	420.599	419.684
67.5	377.625	373.967	374.882	373.967	373.053
70.0	331.907	328.250	329.164	328.250	327.336
72.5	286.190	282.533	283.447	282.533	282.533
75.0	240.473	238.644	238.644	237.730	238.644
77.5	197.499	195.670	196.584	195.670	197.499
80.0	155.439	153.610	154.524	154.524	155.439
82.5	115.207	114.293	113.379	113.379	114.293
85.0	74.062	73.148	73.148	72.233	74.062
87.5	33.831	33.831	33.831	32.916	33.831
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	452.13	N.A.	13.10
0-30	952.55	N.A.	27.60
0-40	1546.02	N.A.	44.90
0-60	2694.54	N.A.	78.20
0-80	3364.77	N.A.	97.60
0-90	3445.84	N.A.	100.00
10-90	3328.32	N.A.	96.60
20-40	1093.89	N.A.	31.70
20-50	1700.15	N.A.	49.30
40-70	1565.56	N.A.	45.40
60-80	670.24	N.A.	19.50
70-80	253.20	N.A.	7.30
80-90	81.07	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	3445.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	117.52
10-20	334.61
20-30	500.42
30-40	593.47
40-50	606.25
50-60	542.26
60-70	417.04
70-80	253.20
80-90	81.07
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

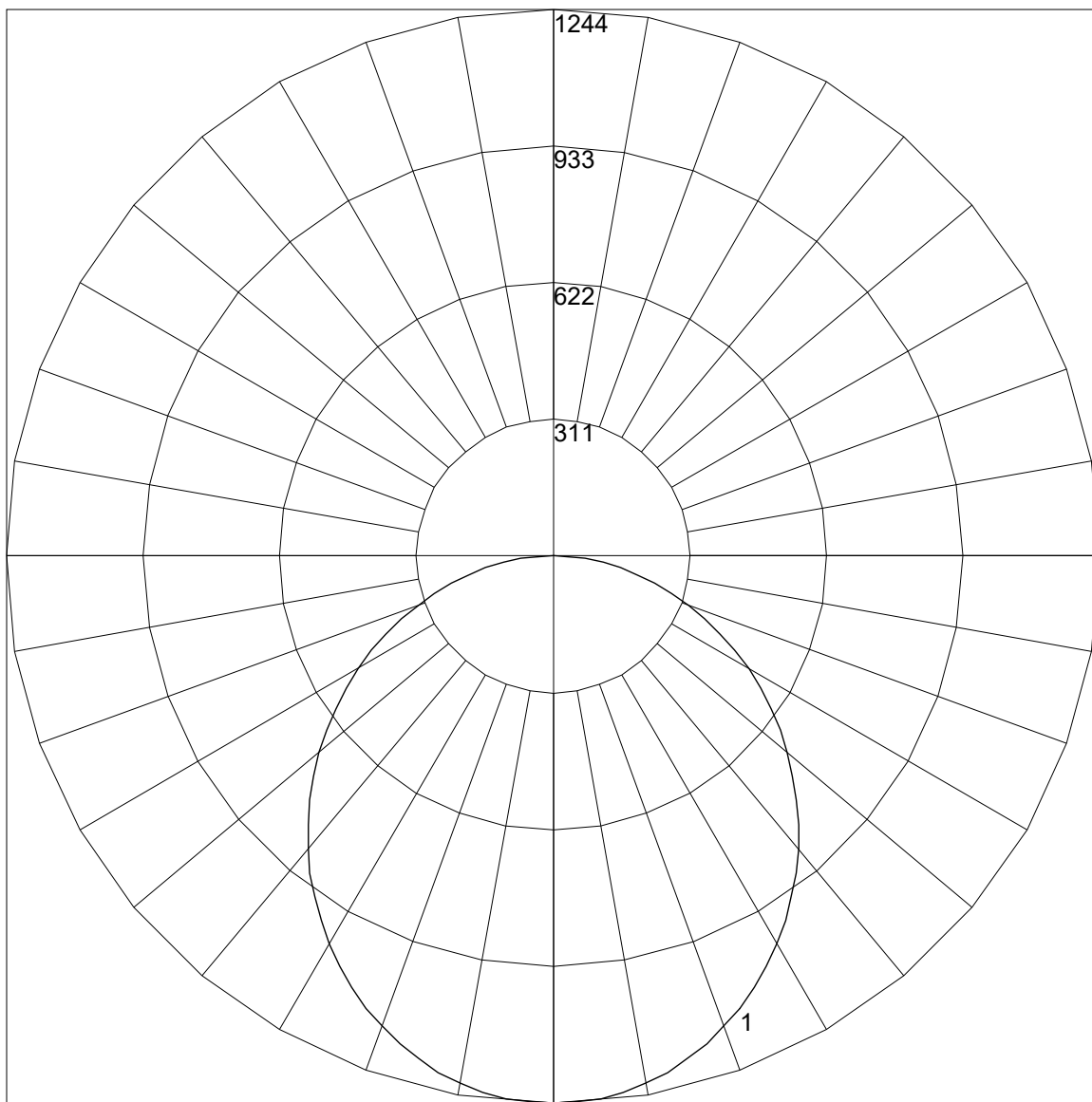
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	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	61	69	64	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 = 1243.509 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)