

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 : HPR-LED-F-1X4-DD-H-837-XXIC-ITL85153.202.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85153.202 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/26/15

[ISSUEDATE]05/17/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-F-1X4-DD-H-837-XXIC

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 40.2 WATTS

[ABSOLUTE]LUMENS]3397

[OTHER]see www.finelite.com for source file ITL85153. 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	3397
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	40.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.81 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3912	3855	3802
55	3526	3449	3396
65	3113	3025	2953
75	2639	2535	2456
85	2095	1746	1474

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1394.535	1394.535	1394.535	1394.535	1394.535
2.5	1392.589	1392.589	1393.562	1393.562	1393.562
5.0	1386.750	1386.750	1386.750	1385.777	1385.777
7.5	1375.072	1375.072	1375.072	1373.126	1374.099
10.0	1361.448	1358.528	1358.528	1358.528	1355.609
12.5	1342.958	1337.119	1339.065	1339.065	1334.199
15.0	1321.548	1311.817	1315.709	1314.736	1307.924
17.5	1293.327	1283.595	1287.488	1285.542	1279.703
20.0	1262.186	1251.481	1254.401	1251.481	1245.642
22.5	1226.179	1217.421	1218.394	1215.474	1208.662
25.0	1189.199	1177.521	1178.494	1174.602	1167.789
27.5	1147.353	1135.675	1135.675	1131.783	1125.944
30.0	1102.588	1091.883	1090.910	1085.071	1080.205
32.5	1054.903	1044.198	1043.225	1036.413	1031.547
35.0	1006.245	995.541	993.594	986.782	981.916
37.5	954.668	945.909	942.017	934.232	930.339
40.0	903.091	894.332	891.413	882.654	877.788
42.5	849.567	842.755	837.889	828.157	827.184
45.0	796.043	789.231	784.365	775.607	773.661
47.5	742.519	737.654	729.868	723.056	720.137
50.0	687.049	684.130	676.345	667.586	666.613
52.5	634.499	629.633	622.821	613.089	613.089
55.0	581.948	577.083	569.297	561.512	560.539
57.5	530.371	524.532	517.720	509.935	508.962
60.0	478.794	473.928	466.143	459.331	458.357
62.5	427.216	425.270	416.512	408.726	408.726
65.0	378.558	374.666	367.854	360.068	359.095
67.5	329.901	326.981	321.142	315.303	312.384
70.0	283.189	281.243	275.404	269.565	267.618
72.5	239.397	236.477	230.638	225.773	224.799
75.0	196.578	193.658	188.793	183.927	182.954
77.5	157.652	152.786	148.893	145.001	143.054
80.0	119.698	115.806	110.940	107.047	105.101
82.5	84.665	80.772	75.906	72.014	70.067
85.0	52.551	49.631	43.792	39.899	36.980
87.5	23.356	19.463	14.597	13.624	12.651
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	501.55	N.A.	14.80
0-30	1043.28	N.A.	30.70
0-40	1663.56	N.A.	49.00
0-60	2778.01	N.A.	81.80
0-80	3344.57	N.A.	98.50
0-90	3397.12	N.A.	100.00
10-90	3265.68	N.A.	96.10
20-40	1162.01	N.A.	34.20
20-50	1766.49	N.A.	52.00
40-70	1479.84	N.A.	43.60
60-80	566.56	N.A.	16.70
70-80	201.17	N.A.	5.90
80-90	52.55	N.A.	1.50
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	3397.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.44
10-20	370.11
20-30	541.73
30-40	620.28
40-50	604.48
50-60	509.97
60-70	365.39
70-80	201.17
80-90	52.55
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

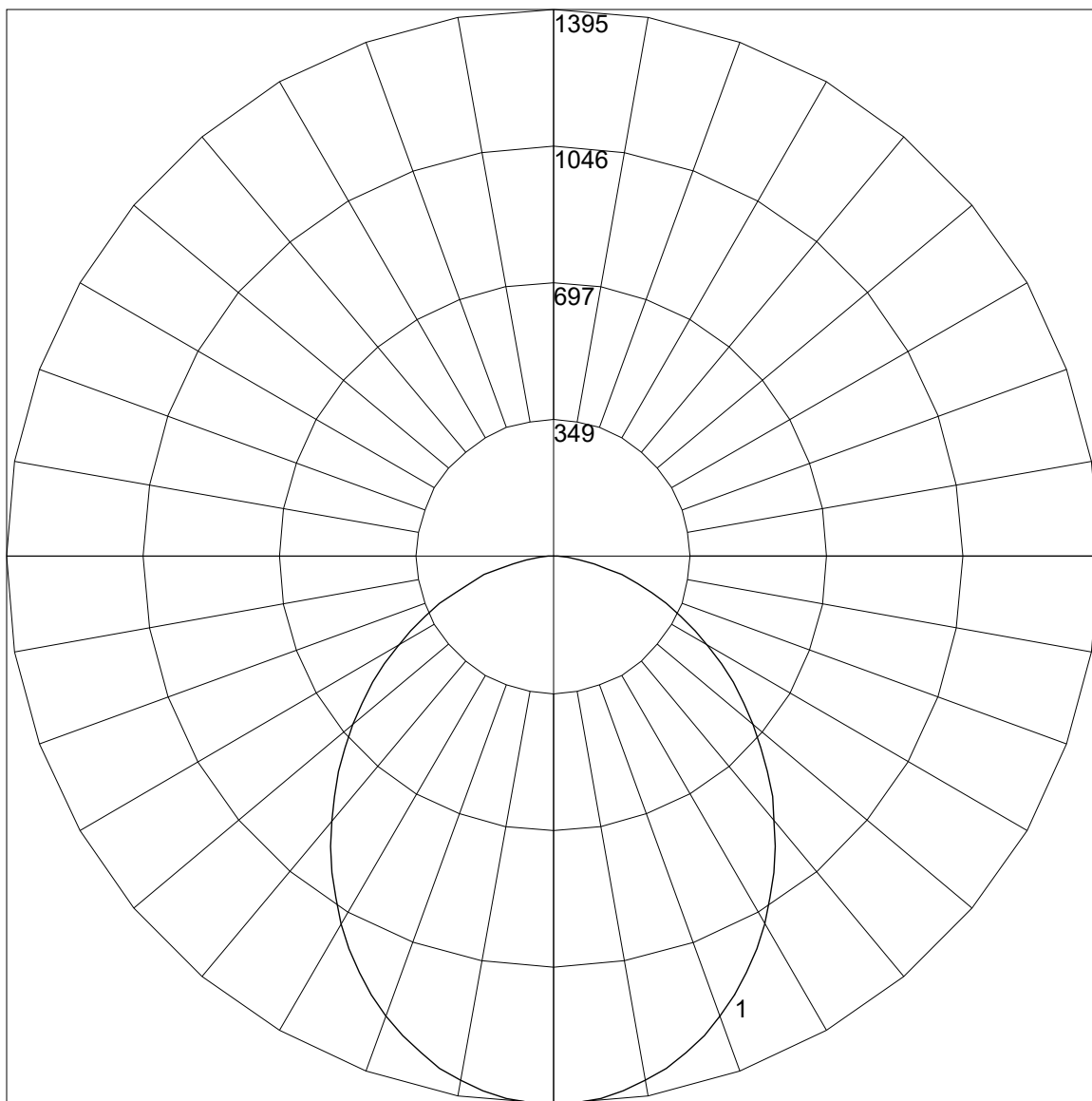
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1394.535 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)