

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-2X2-DD-S-837-XXIC-ITL85154.201.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85154.201 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/27/15

[ISSUEDATE]05/18/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-F-2X2-DD-S-837-XXIC

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 26.7 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 27.5 WATTS

[ABSOLUTE]LUMENS]2339

[OTHER]see www.finelite.com for source file ITL85154. 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	2339
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	26.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.82 ft
Luminous Width (90-270)	1.81 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2465	2476	2495
55	2220	2233	2254
65	1965	1975	2010
75	1667	1678	1695
85	1305	1305	1305

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	944.089	944.089	944.089	944.089	944.089
2.5	943.181	943.181	943.181	943.181	942.727
5.0	939.096	938.642	939.096	938.642	939.096
7.5	931.380	931.380	931.834	931.834	931.834
10.0	922.756	922.302	921.848	921.848	920.941
12.5	908.232	908.232	908.686	908.686	908.686
15.0	891.438	891.892	892.346	892.799	893.253
17.5	872.828	873.282	874.190	874.190	875.098
20.0	851.042	851.496	852.857	853.311	853.765
22.5	826.532	827.439	828.801	829.709	830.617
25.0	800.206	801.568	802.929	804.291	804.745
27.5	771.157	772.973	774.788	776.150	777.058
30.0	741.654	742.562	744.378	746.193	747.555
32.5	711.244	710.790	712.152	714.875	715.783
35.0	678.110	677.656	679.472	682.195	683.103
37.5	641.799	643.161	644.976	647.699	649.061
40.0	607.757	607.757	609.573	612.750	613.658
42.5	571.446	571.446	574.169	576.439	577.801
45.0	535.589	535.135	537.858	540.582	541.943
47.5	499.278	498.824	501.547	504.271	505.632
50.0	462.967	462.967	465.690	467.959	469.321
52.5	427.109	426.656	429.379	431.648	433.464
55.0	391.252	391.252	393.522	396.245	397.153
57.5	356.303	356.303	359.026	360.842	363.565
60.0	321.807	321.807	324.531	325.892	328.616
62.5	287.766	287.766	289.581	291.851	294.120
65.0	255.086	254.632	256.447	258.263	260.986
67.5	222.859	222.406	224.221	225.583	226.944
70.0	191.995	191.541	192.449	194.264	195.626
72.5	161.131	161.584	162.946	164.308	165.216
75.0	132.536	132.989	133.443	134.805	134.805
77.5	105.302	105.756	106.210	107.118	107.118
80.0	79.884	80.338	80.792	81.700	81.246
82.5	56.282	56.736	57.190	57.644	57.644
85.0	34.949	34.949	34.949	35.403	34.949
87.5	14.524	14.524	14.524	13.617	12.709
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-F-2X2-DD-S-837-XXIC-ITL85154.201.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	340.50	N.A.	14.60
0-30	709.84	N.A.	30.30
0-40	1134.66	N.A.	48.50
0-60	1902.35	N.A.	81.30
0-80	2299.46	N.A.	98.30
0-90	2339.36	N.A.	100.00
10-90	2250.28	N.A.	96.20
20-40	794.15	N.A.	33.90
20-50	1209.27	N.A.	51.70
40-70	1022.42	N.A.	43.70
60-80	397.11	N.A.	17.00
70-80	142.38	N.A.	6.10
80-90	39.90	N.A.	1.70
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	2339.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	89.08
10-20	251.43
20-30	369.34
30-40	424.81
40-50	415.12
50-60	352.57
60-70	254.73
70-80	142.38
80-90	39.90
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

IES INDOOR REPORT

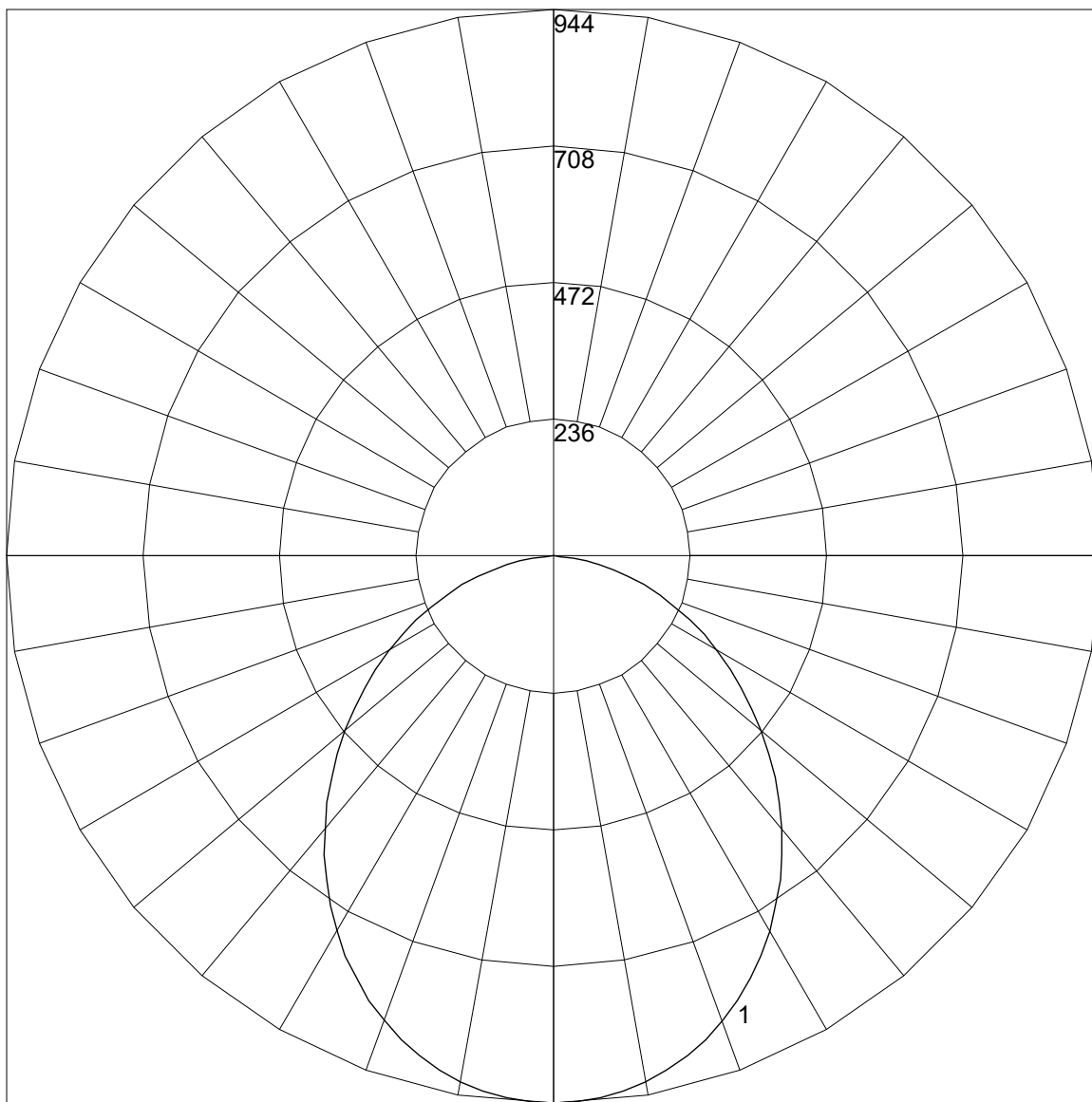
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 944.089 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)