

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-WAV-2X2-V-8-TW-ITL85836.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85836.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]10/15/15
[ISSUEDATE]04/15/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HPR-LED-WAV-2X2-DCO-V-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, 64.0 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 62.9 WATTS
[OTHER]see www.finelite.com for source file ITL85836. 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
[_ABSOLUTELUMENS]6574

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6574
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	64
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
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	6835	6978	7121
55	6378	6548	6724
65	5838	6015	6254
75	4904	5294	5672
85	3212	4033	4295

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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	2457	2457	2457	2457	2457
2.5	2455	2456	2456	2456	2456
5.0	2445	2446	2446	2447	2448
7.5	2428	2429	2430	2432	2433
10.0	2406	2407	2408	2408	2409
12.5	2376	2375	2378	2379	2381
15.0	2334	2338	2341	2347	2348
17.5	2288	2292	2298	2305	2306
20.0	2239	2241	2250	2257	2262
22.5	2181	2184	2197	2205	2211
25.0	2120	2122	2136	2146	2155
27.5	2051	2057	2072	2084	2093
30.0	1982	1985	2003	2016	2025
32.5	1904	1911	1929	1944	1953
35.0	1825	1833	1852	1867	1879
37.5	1744	1752	1773	1789	1801
40.0	1660	1668	1690	1706	1719
42.5	1573	1582	1604	1623	1634
45.0	1485	1494	1516	1536	1547
47.5	1396	1405	1428	1445	1459
50.0	1307	1315	1339	1357	1370
52.5	1216	1224	1248	1266	1278
55.0	1124	1133	1154	1174	1185
57.5	1031	1041	1061	1079	1092
60.0	943	946	967	985	998
62.5	846	855	875	894	905
65.0	758	763	781	800	812
67.5	665	670	688	710	719
70.0	568	576	597	619	628
72.5	478	486	508	527	539
75.0	390	397	421	439	451
77.5	304	314	335	355	364
80.0	223	234	254	272	279
82.5	149	160	178	191	195
85.0	86	94	108	112	115
87.5	35	39	43	41	41
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	892.32	N.A.	13.60
0-30	1875.77	N.A.	28.50
0-40	3033.46	N.A.	46.10
0-60	5234.09	N.A.	79.60
0-80	6453.01	N.A.	98.20
0-90	6574.18	N.A.	100.00
10-90	6341.9	N.A.	96.50
20-40	2141.14	N.A.	32.60
20-50	3310.3	N.A.	50.40
40-70	2974.88	N.A.	45.30
60-80	1218.92	N.A.	18.50
70-80	444.67	N.A.	6.80
80-90	121.17	N.A.	1.80
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	6574.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	232.29
10-20	660.03
20-30	983.46
30-40	1157.69
40-50	1169.15
50-60	1031.47
60-70	774.25
70-80	444.67
80-90	121.17
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

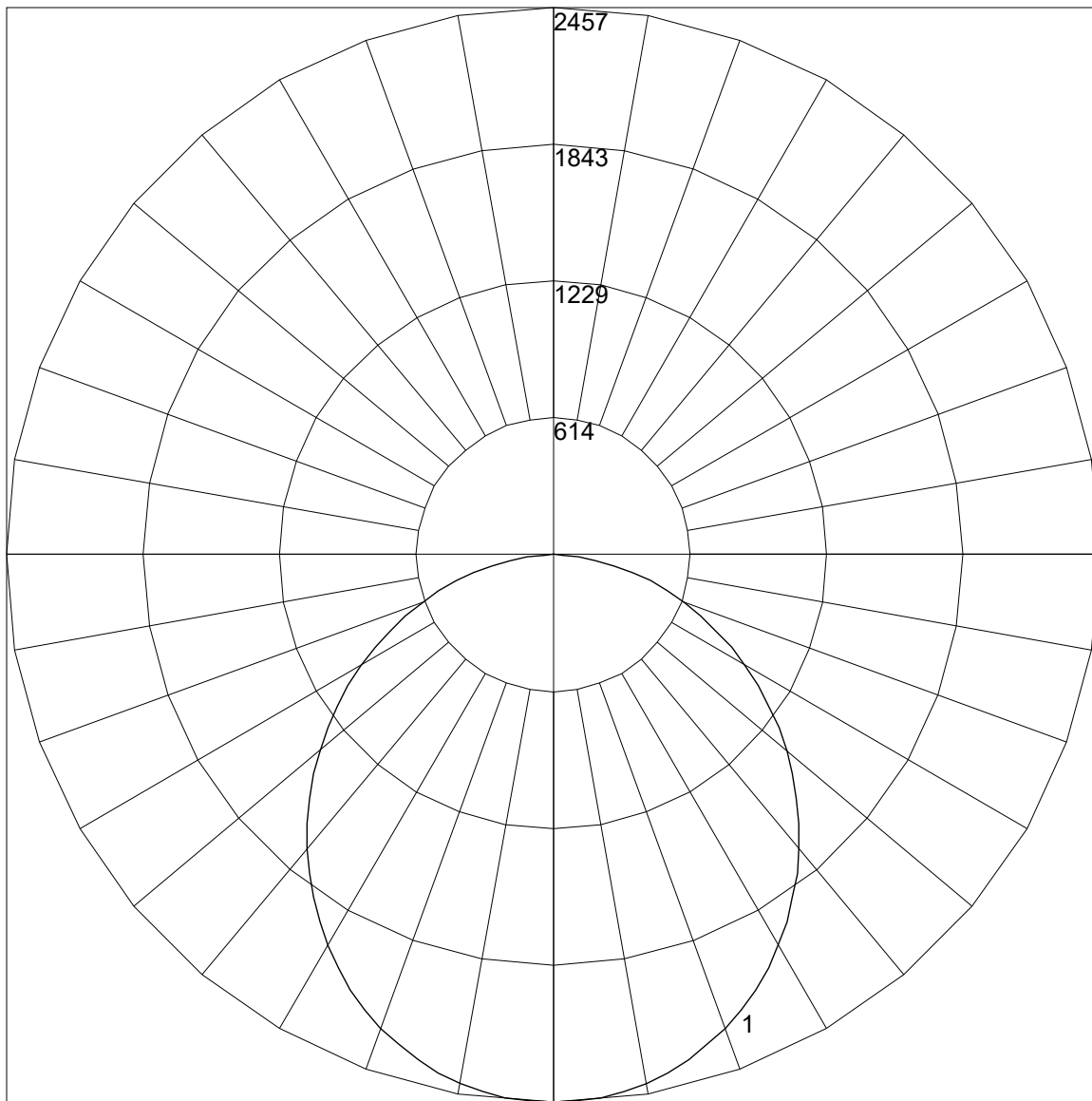
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 2457 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)