

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-ANR-1X4-DCO-V-837-XXIC-ITL85147.203.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85147.203 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/18/15

[ISSUEDATE]05/20/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-ANR-1X4-DCO-V-837-XXIC

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 55.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 53.0 WATTS

[ABSOLUTE]LUMENS]4885

[OTHER]see www.finelite.com for source file ITL85147. 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	4885
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	55.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.26
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	5922	5555	5281
55	5328	4852	4522
65	4710	4084	3689
75	4015	3199	2637
85	3234	2223	2021

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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	2101.013	2101.013	2101.013	2101.013	2101.013
2.5	2099.745	2098.478	2097.211	2097.211	2097.211
5.0	2090.875	2088.341	2084.539	2080.737	2080.737
7.5	2074.402	2070.600	2064.264	2057.928	2057.928
10.0	2054.126	2043.989	2037.653	2030.050	2026.248
12.5	2024.981	2011.042	2004.706	1995.835	1988.232
15.0	1990.767	1971.759	1965.423	1954.018	1946.415
17.5	1951.483	1926.139	1919.803	1907.132	1896.994
20.0	1904.597	1875.452	1869.116	1851.375	1843.772
22.5	1853.909	1822.229	1810.825	1791.817	1782.946
25.0	1795.618	1761.404	1748.732	1727.190	1717.052
27.5	1733.526	1696.777	1680.303	1658.761	1646.089
30.0	1666.364	1628.348	1610.607	1587.798	1571.324
32.5	1596.668	1554.851	1534.576	1510.499	1492.758
35.0	1520.636	1480.086	1457.277	1429.398	1411.657
37.5	1444.605	1404.054	1377.443	1347.030	1329.290
40.0	1364.771	1322.954	1295.075	1262.128	1245.655
42.5	1286.205	1244.387	1212.708	1179.760	1162.020
45.0	1205.104	1162.020	1130.340	1094.858	1074.583
47.5	1122.737	1080.919	1046.705	1009.956	989.681
50.0	1042.903	1002.353	963.070	927.588	909.847
52.5	963.070	922.519	881.969	842.686	827.480
55.0	879.435	841.419	800.869	761.585	746.379
57.5	802.136	762.853	722.302	684.286	671.614
60.0	724.837	686.821	646.270	608.255	596.850
62.5	647.538	610.789	570.239	533.490	522.085
65.0	572.773	538.559	496.741	461.260	448.588
67.5	499.276	468.863	427.045	394.098	380.159
70.0	428.313	400.434	359.884	328.204	315.532
72.5	363.686	334.540	297.791	264.844	254.707
75.0	299.058	272.447	238.233	204.019	196.416
77.5	238.233	212.889	179.942	155.865	153.331
80.0	179.942	158.400	126.720	119.117	116.582
82.5	130.521	107.712	88.704	84.902	83.635
85.0	81.101	62.093	55.757	53.222	50.688
87.5	36.749	26.611	22.810	21.542	19.008
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-ANR-1X4-DCO-V-837-XXIC-ITL85147.203.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	750.76	N.A.	15.40
0-30	1555.00	N.A.	31.80
0-40	2466.29	N.A.	50.50
0-60	4060.02	N.A.	83.10
0-80	4817.01	N.A.	98.60
0-90	4885.04	N.A.	100.00
10-90	4687.53	N.A.	96.00
20-40	1715.53	N.A.	35.10
20-50	2588.57	N.A.	53.00
40-70	2092.43	N.A.	42.80
60-80	756.99	N.A.	15.50
70-80	258.29	N.A.	5.30
80-90	68.04	N.A.	1.40
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	4885.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	197.52
10-20	553.25
20-30	804.23
30-40	911.30
40-50	873.04
50-60	720.69
60-70	498.70
70-80	258.29
80-90	68.04
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

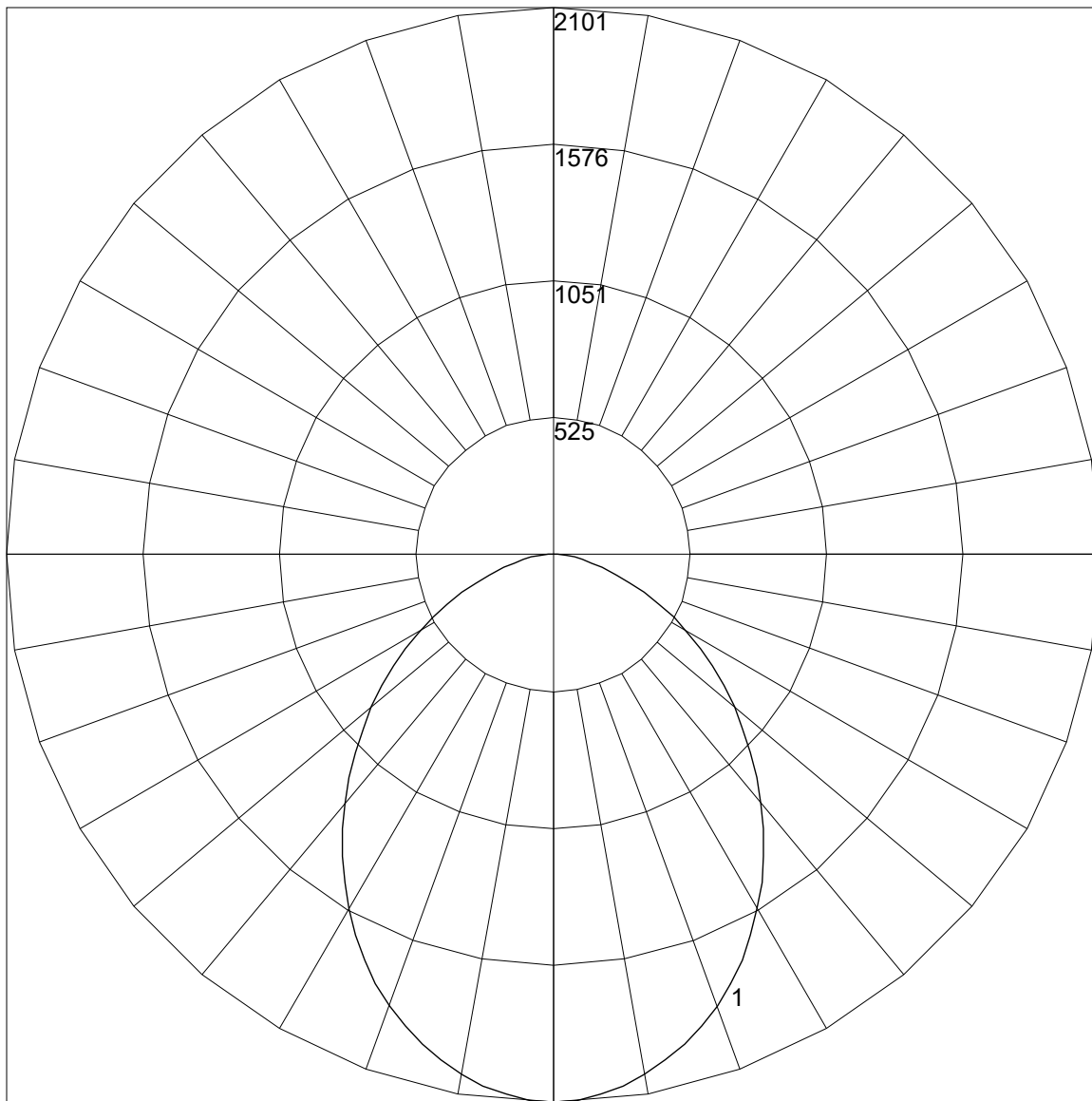
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 2101.013 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)