

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-H-837-XXIC-ITL85154.203.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85154.203 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-H-837-XXIC

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.2 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 40.7 WATTS

[ABSOLUTE]LUMENS]3403

[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	3404
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	40.2
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	3587	3602	3629
55	3230	3249	3279
65	2858	2873	2924
75	2425	2441	2466
85	1899	1899	1899

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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	1373.543	1373.543	1373.543	1373.543	1373.543
2.5	1372.222	1372.222	1372.222	1372.222	1371.562
5.0	1366.279	1365.619	1366.279	1365.619	1366.279
7.5	1355.053	1355.053	1355.713	1355.713	1355.713
10.0	1342.506	1341.846	1341.185	1341.185	1339.865
12.5	1321.375	1321.375	1322.035	1322.035	1322.035
15.0	1296.941	1297.602	1298.262	1298.922	1299.583
17.5	1269.867	1270.527	1271.848	1271.848	1273.169
20.0	1238.170	1238.830	1240.811	1241.471	1242.132
22.5	1202.510	1203.831	1205.812	1207.133	1208.454
25.0	1164.210	1166.191	1168.172	1170.153	1170.813
27.5	1121.947	1124.588	1127.230	1129.211	1130.531
30.0	1079.024	1080.344	1082.986	1085.627	1087.608
32.5	1034.780	1034.119	1036.100	1040.062	1041.383
35.0	986.574	985.913	988.555	992.517	993.837
37.5	933.745	935.726	938.367	942.330	944.311
40.0	884.218	884.218	886.860	891.482	892.803
42.5	831.390	831.390	835.352	838.654	840.635
45.0	779.221	778.561	782.523	786.485	788.466
47.5	726.393	725.732	729.695	733.657	735.638
50.0	673.564	673.564	677.526	680.828	682.809
52.5	621.396	620.736	624.698	628.000	630.641
55.0	569.228	569.228	572.530	576.492	577.812
57.5	518.380	518.380	522.342	524.984	528.946
60.0	468.193	468.193	472.155	474.136	478.099
62.5	418.666	418.666	421.308	424.610	427.911
65.0	371.121	370.460	373.102	375.743	379.705
67.5	324.235	323.575	326.216	328.197	330.179
70.0	279.331	278.671	279.991	282.633	284.614
72.5	234.427	235.087	237.068	239.049	240.370
75.0	192.824	193.485	194.145	196.126	196.126
77.5	153.203	153.863	154.524	155.844	155.844
80.0	116.223	116.883	117.544	118.864	118.204
82.5	81.884	82.545	83.205	83.865	83.865
85.0	50.847	50.847	50.847	51.508	50.847
87.5	21.131	21.131	21.131	19.811	18.490
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	495.39	N.A.	14.60
0-30	1032.74	N.A.	30.30
0-40	1650.8	N.A.	48.50
0-60	2767.7	N.A.	81.30
0-80	3345.45	N.A.	98.30
0-90	3403.51	N.A.	100.00
10-90	3273.91	N.A.	96.20
20-40	1155.4	N.A.	33.90
20-50	1759.35	N.A.	51.70
40-70	1487.51	N.A.	43.70
60-80	577.75	N.A.	17.00
70-80	207.14	N.A.	6.10
80-90	58.05	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	3403.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	129.60
10-20	365.80
20-30	537.35
30-40	618.06
40-50	603.95
50-60	512.96
60-70	370.60
70-80	207.14
80-90	58.05
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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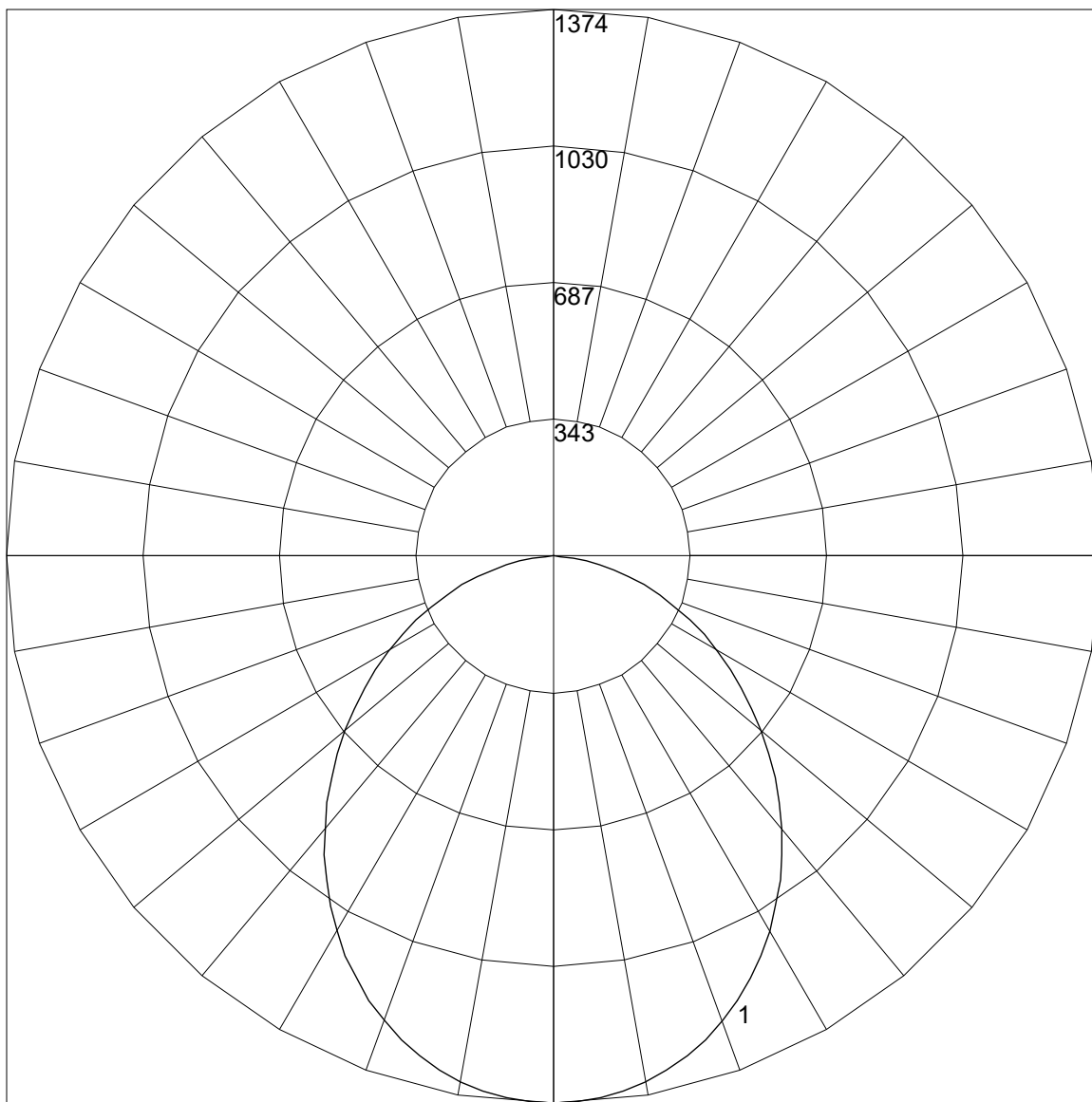
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	47	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	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1373.543 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)