

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-1X2-DCO-V-837-XXIC-ITL85140.203.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85140.203 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/17/15

[ISSUEDATE]05/17/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPR-LED-F-1X2-DCO-V-837-XXIC

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.9 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 30.5 WATTS

[ABSOLUTE]LUMENS]2463

[OTHER]see www.finelite.com for source file ITL85140. 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	2463
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	28.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.83 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	6047	5955	5812
55	5426	5265	4991
65	4807	4480	4108
75	4032	3532	3069
85	3073	1907	1801

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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	1005.023	1005.023	1005.023	1005.023	1005.023
2.5	1003.755	1003.755	1003.755	1003.755	1003.755
5.0	999.953	999.953	999.953	999.953	1001.221
7.5	992.349	993.616	993.616	994.884	996.151
10.0	983.478	984.745	984.745	986.012	988.547
12.5	972.071	972.071	973.339	975.873	977.141
15.0	956.863	956.863	959.398	960.665	963.200
17.5	939.120	939.120	941.654	944.189	945.456
20.0	916.307	918.842	920.109	923.911	925.179
22.5	892.227	894.762	896.029	898.564	899.831
25.0	866.880	868.147	870.682	871.949	871.949
27.5	837.730	838.998	840.265	841.532	841.532
30.0	806.046	807.313	808.581	808.581	807.313
32.5	771.827	774.362	774.362	773.094	773.094
35.0	737.608	738.876	738.876	735.073	735.073
37.5	700.854	702.122	700.854	694.518	694.518
40.0	664.101	664.101	660.299	653.962	650.160
42.5	626.080	624.812	619.743	612.139	607.069
45.0	586.791	585.524	577.920	569.048	563.979
47.5	547.503	543.701	536.097	525.958	520.888
50.0	505.680	503.145	495.541	484.135	477.798
52.5	466.391	463.857	453.718	441.044	434.707
55.0	427.103	424.568	414.429	400.488	392.884
57.5	390.349	385.280	373.874	358.665	352.328
60.0	352.328	347.259	334.585	319.377	311.773
62.5	315.575	309.238	296.564	281.356	273.751
65.0	278.821	272.484	259.810	244.602	238.265
67.5	242.067	236.998	223.057	209.116	202.779
70.0	206.581	202.779	188.838	176.164	171.095
72.5	173.629	169.827	155.886	143.213	139.410
75.0	143.213	138.143	125.469	114.063	108.994
77.5	112.796	108.994	96.320	86.181	82.379
80.0	84.914	81.112	69.705	59.566	57.032
82.5	59.566	54.497	44.358	36.754	36.754
85.0	36.754	31.684	22.813	21.545	21.545
87.5	16.476	11.406	10.139	8.872	8.872
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPR-LED-F-1X2-DCO-V-837-XXIC-ITL85140.203.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	365.36	N.A.	14.80
0-30	765.47	N.A.	31.10
0-40	1225.84	N.A.	49.80
0-60	2039.46	N.A.	82.80
0-80	2430.49	N.A.	98.70
0-90	2462.63	N.A.	100.00
10-90	2367.63	N.A.	96.10
20-40	860.48	N.A.	34.90
20-50	1305.29	N.A.	53.00
40-70	1070.4	N.A.	43.50
60-80	391.03	N.A.	15.90
70-80	134.25	N.A.	5.50
80-90	32.14	N.A.	1.30
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	2462.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	95.00
10-20	270.36
20-30	400.11
30-40	460.37
40-50	444.82
50-60	368.80
60-70	256.78
70-80	134.25
80-90	32.14
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

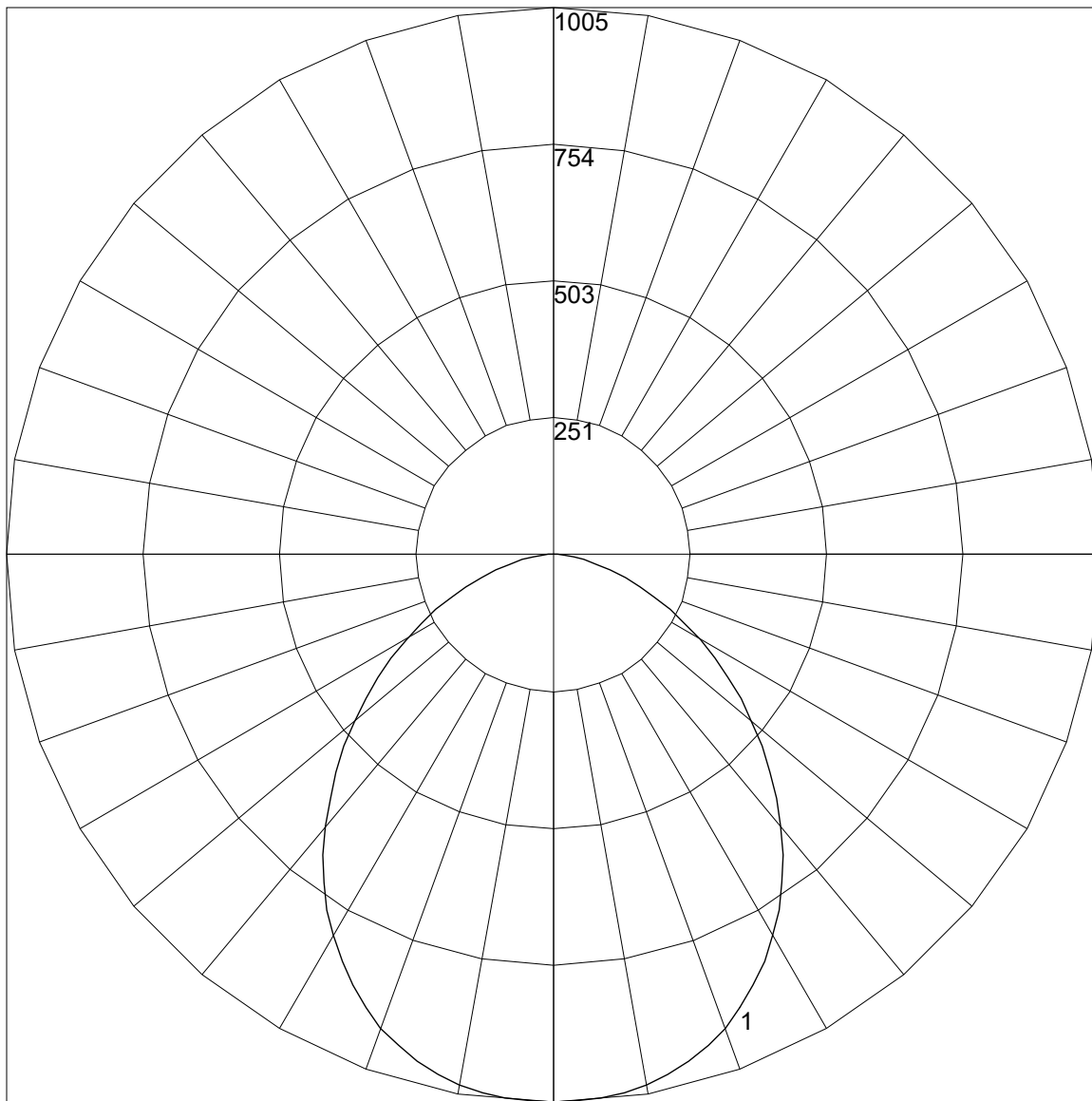
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	84	79	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

POLAR GRAPH



Maximum Candela = 1005.023 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)