

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 : HP-2-D-RG-4FT-V-835-RG-LHE-ABL-12H-ITL91933.204.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91933.204 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]06/11/19

[TESTDATE]06/11/2020

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-D-RG-4ft-V-835-RG-LHE-ABL-12H

[_INPUT_ELECTRICAL]120.0 VOLTS, 36.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 37.3 WATTS

[OTHER]see www.finelite.com for source file ITL91933. 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

[_ABSOLUTE LUMENS]1793

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1793
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	49
Total Luminaire Watts	36.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.76
Spacing Criterion (Diagonal)	0.80
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.19 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7381	5678	7239
55	6425	4550	5975
65	5666	3800	4580
75	4875	3158	3213
85	3455	1974	1645

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-D-RG-4FT-V-835-RG-LHE-ABL-12H-ITL91933.204.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1707	1707	1707	1707	1707
2.5	1676	1677	1682	1685	1688
5.0	1590	1597	1611	1627	1636
7.5	1493	1498	1516	1547	1565
10.0	1396	1391	1409	1453	1475
12.5	1303	1287	1301	1342	1381
15.0	1207	1186	1192	1234	1281
17.5	1111	1088	1087	1125	1173
20.0	1018	989	980	1013	1062
22.5	927	894	881	903	958
25.0	839	801	784	803	854
27.5	745	712	693	710	759
30.0	662	627	606	628	676
32.5	584	544	529	550	599
35.0	515	470	462	489	535
37.5	464	404	406	437	482
40.0	425	353	356	393	435
42.5	394	313	314	352	393
45.0	364	280	280	316	357
47.5	335	253	250	286	323
50.0	307	227	225	258	293
52.5	281	203	203	232	266
55.0	257	182	182	207	239
57.5	233	162	162	184	213
60.0	210	144	144	163	186
62.5	189	127	128	141	161
65.0	167	111	112	122	135
67.5	146	96	97	105	113
70.0	126	82	82	88	92
72.5	107	68	70	72	74
75.0	88	56	57	57	58
77.5	70	44	44	43	43
80.0	52	34	32	31	30
82.5	36	23	21	20	19
85.0	21	13	12	10	10
87.5	8	5	4	4	4
90.0	0	0	0	0	0

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-D-RG-4FT-V-835-RG-LHE-ABL-12H-ITL91933.204.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	485.98	N.A.	27.10
0-30	856.92	N.A.	47.80
0-40	1164.5	N.A.	65.00
0-60	1588.81	N.A.	88.60
0-80	1777.02	N.A.	99.10
0-90	1792.65	N.A.	100.00
10-90	1644.83	N.A.	91.80
20-40	678.53	N.A.	37.90
20-50	919.08	N.A.	51.30
40-70	547.90	N.A.	30.60
60-80	188.20	N.A.	10.50
70-80	64.61	N.A.	3.60
80-90	15.64	N.A.	0.90
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	1792.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.83
10-20	338.15
20-30	370.95
30-40	307.58
40-50	240.55
50-60	183.76
60-70	123.59
70-80	64.61
80-90	15.64
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

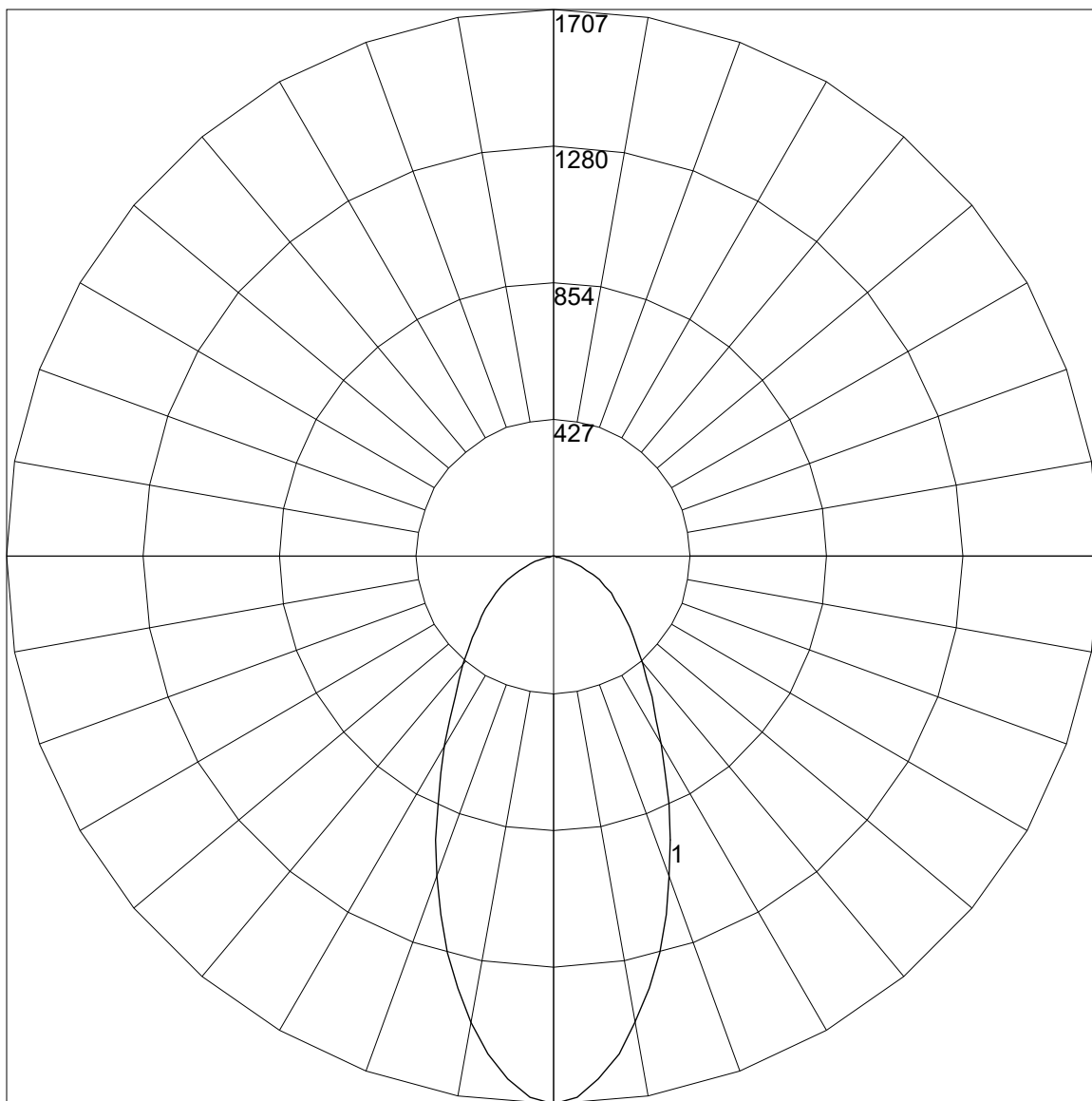
PHOTOMETRIC FILENAME : HP-2-D-RG-4FT-V-835-RG-LHE-ABL-12H-ITL91933.204.IES

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	67	87	78	71	66	76	70	65	74	69	65	72	67	64	62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	62	57	53	51
7	74	62	55	50	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	43	39	37

POLAR GRAPH



Maximum Candela = 1707 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)