

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-P-ID-4FT-B-S-835-WSO-ABL-8H-ITL94474.012.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94474.012 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]04/12/21

[TESTDATE]01/22/21

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-P-ID-4ft-B-SH-835-WSO-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 31.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 33.4 WATTS

[_ABSOLUTE]LUMENS]3383

[OTHER]see www.finelite.com for source file ITL94474. 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	3383
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	31.5
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.81 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7054	6805	6399
55	6511	6078	5350
65	5886	4975	4032
75	5020	3229	2043
85	3821	300	225

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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	535.405	535.405	535.405	535.405	535.405
2.5	534.996	534.586	534.586	534.586	534.586
5.0	532.130	531.721	531.312	531.312	530.902
7.5	528.037	527.628	526.809	525.990	525.990
10.0	522.306	520.669	520.260	519.441	518.622
12.5	515.348	512.073	512.482	512.073	510.026
15.0	506.752	501.840	503.477	501.840	499.793
17.5	496.109	490.379	492.016	489.560	487.104
20.0	483.829	477.689	479.327	476.052	473.596
22.5	469.912	464.181	464.591	461.316	458.041
25.0	455.585	449.445	449.445	444.533	441.668
27.5	440.440	433.072	433.072	427.751	424.476
30.0	423.658	417.518	415.880	410.559	406.875
32.5	406.875	401.144	398.688	392.139	387.636
35.0	388.046	382.724	379.859	372.082	367.579
37.5	370.445	364.305	361.439	352.025	347.931
40.0	351.615	345.885	342.201	331.558	327.055
42.5	331.558	327.465	321.734	311.092	304.952
45.0	312.729	307.817	301.677	289.397	283.666
47.5	293.490	288.169	281.210	267.702	261.563
50.0	273.433	269.340	259.925	245.599	239.049
52.5	254.195	250.511	239.459	223.085	215.308
55.0	234.137	230.044	218.583	200.163	192.386
57.5	215.308	210.396	197.298	177.240	170.691
60.0	195.251	191.158	175.194	155.955	148.996
62.5	175.194	171.510	152.680	134.670	126.893
65.0	155.955	151.452	131.805	113.385	106.835
67.5	137.126	130.986	110.929	92.918	87.188
70.0	117.887	111.747	90.871	73.680	67.949
72.5	99.058	92.099	70.814	55.669	50.348
75.0	81.457	72.042	52.394	38.477	33.156
77.5	64.674	53.622	35.202	22.104	18.420
80.0	48.710	36.840	18.829	8.187	4.912
82.5	34.384	21.285	5.321	2.047	2.047
85.0	20.876	7.368	1.637	1.637	1.228
87.5	9.005	0.819	0.819	0.819	0.819
90.0	0.000	0.000	0.000	0.000	0.000
92.5	9.777	16.467	26.244	17.496	14.408
95.0	22.641	42.710	80.789	46.827	38.079
97.5	36.535	67.924	146.655	88.508	68.954
100.0	50.429	89.022	235.677	148.199	111.664
102.5	65.352	107.547	312.864	246.998	180.103
105.0	80.274	124.528	365.866	391.080	295.368
107.5	95.197	139.965	389.536	545.454	454.373
110.0	111.149	155.403	400.857	674.613	629.845
112.5	126.072	170.840	408.061	749.227	763.121
115.0	142.024	184.734	412.692	775.471	839.793
117.5	157.461	199.142	415.780	779.587	871.697
120.0	172.384	212.007	418.353	772.898	880.445
122.5	185.248	224.356	419.896	755.402	875.299
125.0	197.084	235.163	419.896	729.158	855.230
127.5	208.404	244.940	418.867	699.827	822.812
130.0	218.696	253.173	418.353	671.011	781.646
132.5	228.473	260.892	416.809	641.680	743.567

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-B-S-835-WSO-ABL-8H-ITL94474.012.IES****CANDELA TABULATION - (Cont.)**

135.0	237.736	268.610	414.236	614.922	706.002
137.5	246.998	275.814	410.119	588.678	668.953
140.0	256.260	283.533	405.488	563.979	633.961
142.5	264.494	289.708	400.342	539.279	600.514
145.0	272.212	295.368	394.168	514.579	567.581
147.5	280.446	300.514	387.478	491.423	536.706
150.0	288.164	305.660	380.274	469.296	506.346
152.5	294.854	310.806	374.099	448.198	479.073
155.0	301.543	314.922	369.982	427.615	453.859
157.5	308.747	319.554	364.322	409.090	429.159
160.0	315.437	324.185	358.147	393.138	407.547
162.5	320.583	327.272	352.487	378.730	389.536
165.0	325.214	329.845	348.370	366.380	374.614
167.5	328.301	331.389	344.253	356.603	361.234
170.0	330.874	332.933	340.651	348.885	351.457
172.5	332.418	333.962	338.593	342.710	344.253
175.0	333.962	334.476	336.535	338.078	339.108
177.5	334.991	334.476	334.991	335.505	336.020
180.0	334.991	334.991	334.991	334.991	334.991

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-B-S-835-WSO-ABL-8H-ITL94474.012.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	191.85	N.A.	5.70
0-30	398.06	N.A.	11.80
0-40	634.59	N.A.	18.80
0-60	1058.1	N.A.	31.30
0-80	1247.88	N.A.	36.90
0-90	1256.12	N.A.	37.10
10-90	1205.73	N.A.	35.60
20-40	442.74	N.A.	13.10
20-50	673.50	N.A.	19.90
40-70	554.32	N.A.	16.40
60-80	189.77	N.A.	5.60
70-80	58.97	N.A.	1.70
80-90	8.24	N.A.	0.20
90-110	343.98	N.A.	10.20
90-120	797.08	N.A.	23.60
90-130	1223.75	N.A.	36.20
90-150	1822.35	N.A.	53.90
90-180	2126.84	N.A.	62.90
110-180	1782.85	N.A.	52.70
0-180	3382.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.38
10-20	141.47
20-30	206.21
30-40	236.53
40-50	230.76
50-60	192.76
60-70	130.81
70-80	58.97
80-90	8.24
90-100	61.58
100-110	282.40
110-120	453.10
120-130	426.67
130-140	342.98
140-150	255.62
150-160	173.01
160-170	99.22
170-180	32.26

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

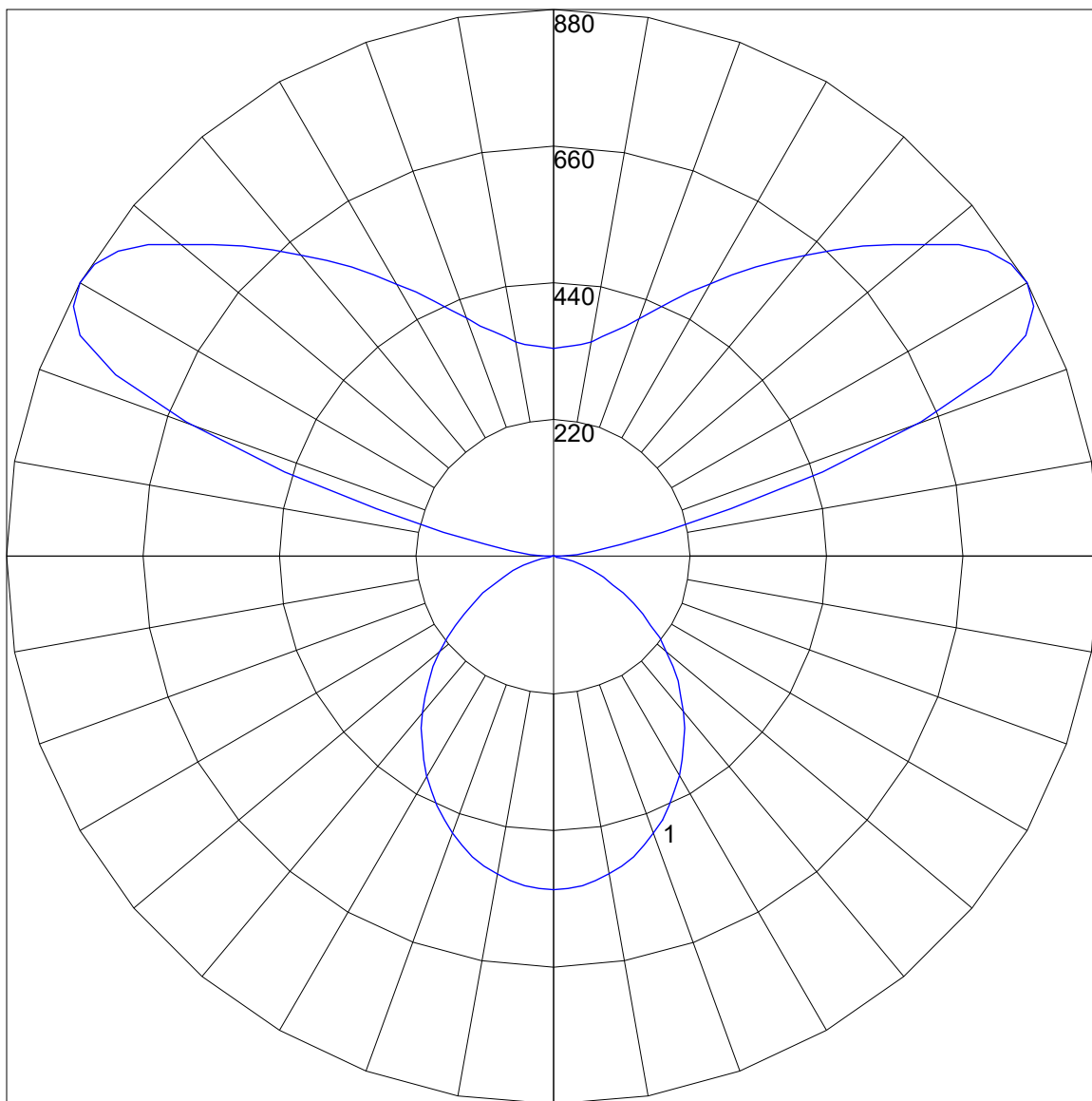
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	87	87	87	68	68	68	51	51	51	43
1	109	105	100	97	99	95	91	88	77	75	72	61	59	58	45	45	44	37
2	100	92	85	79	90	83	78	73	68	64	60	54	51	48	40	39	37	31
3	91	81	73	66	82	73	67	61	60	55	51	47	44	41	36	34	32	27
4	83	71	63	56	75	65	58	52	53	48	43	42	39	35	32	30	28	23
5	76	64	55	48	69	58	50	44	48	42	38	38	34	31	29	26	24	20
6	70	57	48	42	64	52	44	39	43	37	33	34	30	27	26	24	21	18
7	65	51	43	36	59	47	39	34	39	33	29	31	27	24	24	21	19	16
8	60	47	38	32	55	43	35	30	35	30	26	29	24	21	22	19	17	14
9	56	42	34	29	51	39	32	27	32	27	23	26	22	19	20	17	15	13
10	52	39	31	26	48	36	29	24	30	24	21	24	20	17	19	16	14	12

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POLAR GRAPH



Maximum Candela = 880.445 Located At Horizontal Angle = 90, Vertical Angle = 120

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)