

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-V-835-WSO-ABL-8H-ITL94474.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94474.010 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-V-835-WSO-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 53.0 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 53.9 WATTS

[_ABSOLUTE]LUMENS]5196

[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	5196
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	53
Ballast Factor	1.00
CIE Type	General Diffuse
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	17234	16625	15632
55	15907	14850	13070
65	14380	12153	9851
75	12264	7888	4992
85	9333	732	549

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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	1308.000	1308.000	1308.000	1308.000	1308.000
2.5	1307.000	1306.000	1306.000	1306.000	1306.000
5.0	1300.000	1299.000	1298.000	1298.000	1297.000
7.5	1290.000	1289.000	1287.000	1285.000	1285.000
10.0	1276.000	1272.000	1271.000	1269.000	1267.000
12.5	1259.000	1251.000	1252.000	1251.000	1246.000
15.0	1238.000	1226.000	1230.000	1226.000	1221.000
17.5	1212.000	1198.000	1202.000	1196.000	1190.000
20.0	1182.000	1167.000	1171.000	1163.000	1157.000
22.5	1148.000	1134.000	1135.000	1127.000	1119.000
25.0	1113.000	1098.000	1098.000	1086.000	1079.000
27.5	1076.000	1058.000	1058.000	1045.000	1037.000
30.0	1035.000	1020.000	1016.000	1003.000	994.000
32.5	994.000	980.000	974.000	958.000	947.000
35.0	948.000	935.000	928.000	909.000	898.000
37.5	905.000	890.000	883.000	860.000	850.000
40.0	859.000	845.000	836.000	810.000	799.000
42.5	810.000	800.000	786.000	760.000	745.000
45.0	764.000	752.000	737.000	707.000	693.000
47.5	717.000	704.000	687.000	654.000	639.000
50.0	668.000	658.000	635.000	600.000	584.000
52.5	621.000	612.000	585.000	545.000	526.000
55.0	572.000	562.000	534.000	489.000	470.000
57.5	526.000	514.000	482.000	433.000	417.000
60.0	477.000	467.000	428.000	381.000	364.000
62.5	428.000	419.000	373.000	329.000	310.000
65.0	381.000	370.000	322.000	277.000	261.000
67.5	335.000	320.000	271.000	227.000	213.000
70.0	288.000	273.000	222.000	180.000	166.000
72.5	242.000	225.000	173.000	136.000	123.000
75.0	199.000	176.000	128.000	94.000	81.000
77.5	158.000	131.000	86.000	54.000	45.000
80.0	119.000	90.000	46.000	20.000	12.000
82.5	84.000	52.000	13.000	5.000	5.000
85.0	51.000	18.000	4.000	4.000	3.000
87.5	22.000	2.000	2.000	2.000	2.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	9.777	16.466	26.244	17.496	14.408
95.0	22.642	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	212.006	418.353	772.898	880.445
122.5	185.248	224.356	419.897	755.402	875.299
125.0	197.084	235.163	419.897	729.158	855.230
127.5	208.405	244.940	418.867	699.827	822.812
130.0	218.696	253.173	418.353	671.011	781.645
132.5	228.473	260.892	416.809	641.680	743.567

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-B-V-835-WSO-ABL-8H-ITL94474.010.IES****CANDELA TABULATION - (Cont.)**

135.0	237.736	268.610	414.236	614.922	706.002
137.5	246.998	275.814	410.120	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	374.613
167.5	328.301	331.389	344.253	356.603	361.235
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-V-835-WSO-ABL-8H-ITL94474.010.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	468.69	N.A.	9.00
0-30	972.47	N.A.	18.70
0-40	1550.31	N.A.	29.80
0-60	2584.96	N.A.	49.80
0-80	3048.57	N.A.	58.70
0-90	3068.7	N.A.	59.10
10-90	2945.62	N.A.	56.70
20-40	1081.62	N.A.	20.80
20-50	1645.36	N.A.	31.70
40-70	1354.21	N.A.	26.10
60-80	463.62	N.A.	8.90
70-80	144.06	N.A.	2.80
80-90	20.13	N.A.	0.40
90-110	343.98	N.A.	6.60
90-120	797.08	N.A.	15.30
90-130	1223.75	N.A.	23.60
90-150	1822.35	N.A.	35.10
90-180	2126.84	N.A.	40.90
110-180	1782.85	N.A.	34.30
0-180	5195.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	123.08
10-20	345.61
20-30	503.78
30-40	577.84
40-50	563.74
50-60	470.91
60-70	319.56
70-80	144.06
80-90	20.13
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

IES INDOOR REPORT

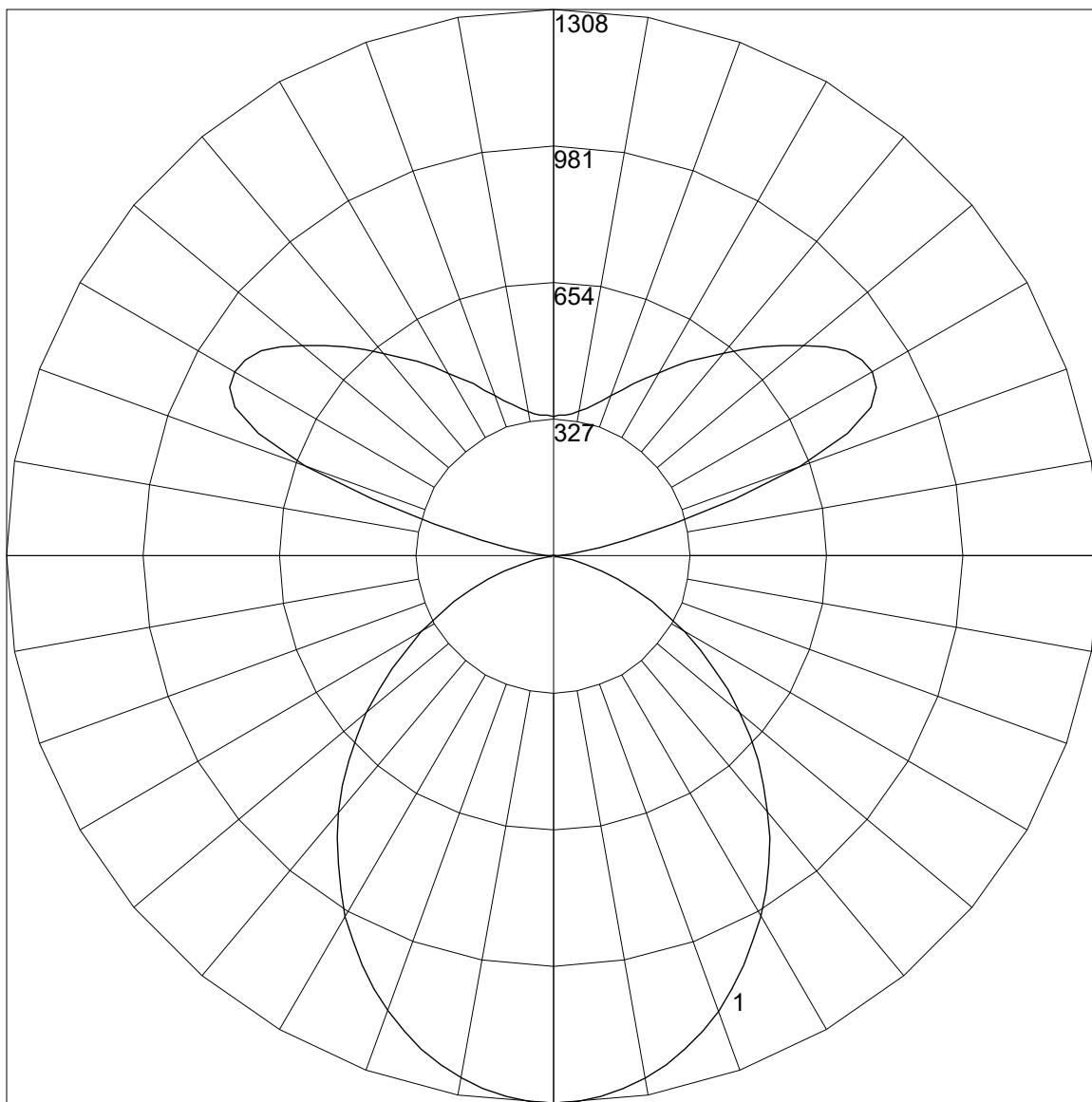
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	89	94	90	87	84	78	76	74	68	66	64	58	57	55	51
2	92	84	78	73	85	79	74	69	69	65	62	60	57	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	41	37
4	77	66	58	52	71	62	55	50	55	49	45	48	43	40	41	38	35	32
5	71	59	51	45	66	56	48	43	49	43	39	43	38	35	37	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	30	27	25
7	60	48	40	35	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	44	36	31	52	41	34	29	37	31	27	32	28	24	28	25	22	20
9	52	40	33	27	49	38	31	26	34	28	24	30	25	22	26	23	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	24	21	18	16

POLAR GRAPH



Maximum Candela = 1308 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)