

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-H-V-835-WSO-ABL-8H-ITL94474.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94474.007 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-H-V-835-WSO-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 62.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 62.8 WATTS

[_ABSOLUTE]LUMENS]6284

[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	6284
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	62.6
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	14.779	24.891	39.670	26.447	21.779
95.0	34.225	64.561	122.121	70.783	57.560
97.5	55.227	102.675	221.684	133.788	104.230
100.0	76.228	134.566	356.250	224.018	168.791
102.5	98.786	162.568	472.926	373.363	272.244
105.0	121.343	188.237	553.044	591.158	446.480
107.5	143.900	211.572	588.824	824.509	686.832
110.0	168.013	234.907	605.937	1019.747	952.075
112.5	190.571	258.243	616.826	1132.534	1153.535
115.0	214.684	279.244	623.827	1172.203	1269.433
117.5	238.019	301.024	628.494	1178.426	1317.659
120.0	260.576	320.470	632.383	1168.314	1330.883
122.5	280.022	339.138	634.717	1141.868	1323.104
125.0	297.912	355.472	634.717	1102.198	1292.768
127.5	315.025	370.251	633.161	1057.861	1243.765
130.0	330.582	382.697	632.383	1014.302	1181.537
132.5	345.361	394.364	630.050	969.965	1123.977

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-H-V-835-WSO-ABL-8H-ITL94474.007.IES****CANDELA TABULATION - (Cont.)**

135.0	359.362	406.032	626.160	929.518	1067.195
137.5	373.363	416.922	619.938	889.848	1011.191
140.0	387.364	428.589	612.937	852.512	958.298
142.5	399.809	437.923	605.159	815.175	907.738
145.0	411.477	446.480	595.825	777.839	857.956
147.5	423.922	454.258	585.713	742.836	811.286
150.0	435.590	462.036	574.823	709.389	765.394
152.5	445.702	469.815	565.489	677.498	724.168
155.0	455.814	476.037	559.266	646.384	686.054
157.5	466.703	483.038	550.710	618.382	648.718
160.0	476.815	490.039	541.376	594.269	616.048
162.5	484.594	494.706	532.820	572.490	588.824
165.0	491.594	498.595	526.597	553.821	566.267
167.5	496.261	500.928	520.374	539.042	546.043
170.0	500.150	503.262	514.929	527.375	531.264
172.5	502.484	504.818	511.818	518.041	520.374
175.0	504.818	505.595	508.707	511.040	512.596
177.5	506.373	505.595	506.373	507.151	507.929
180.0	506.373	506.373	506.373	506.373	506.373

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-H-V-835-WSO-ABL-8H-ITL94474.007.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	468.69	N.A.	7.50
0-30	972.47	N.A.	15.50
0-40	1550.31	N.A.	24.70
0-60	2584.96	N.A.	41.10
0-80	3048.57	N.A.	48.50
0-90	3068.7	N.A.	48.80
10-90	2945.62	N.A.	46.90
20-40	1081.62	N.A.	17.20
20-50	1645.36	N.A.	26.20
40-70	1354.21	N.A.	21.60
60-80	463.62	N.A.	7.40
70-80	144.06	N.A.	2.30
80-90	20.13	N.A.	0.30
90-110	519.96	N.A.	8.30
90-120	1204.86	N.A.	19.20
90-130	1849.82	N.A.	29.40
90-150	2754.67	N.A.	43.80
90-180	3214.93	N.A.	51.20
110-180	2694.97	N.A.	42.90
0-180	6283.63	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	93.08
100-110	426.88
110-120	684.90
120-130	644.96
130-140	518.45
140-150	386.40
150-160	261.52
160-170	149.98
170-180	48.76

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

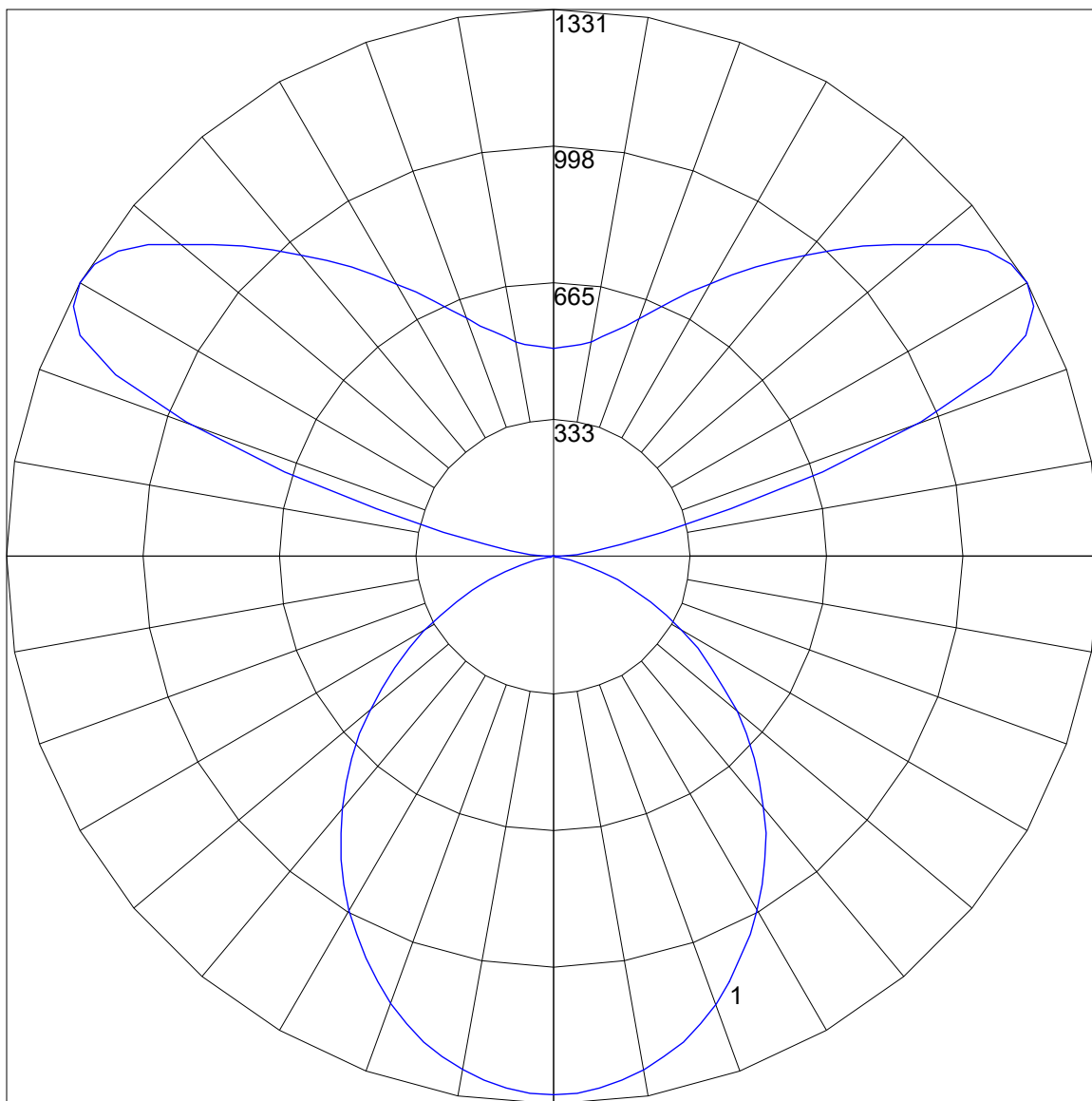
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	87	90	87	83	81	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	67	64	61	57	54	51	49	44	42	40	36
3	82	72	65	60	75	67	61	56	57	52	49	48	44	41	39	37	35	30
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30	26
5	69	57	49	44	63	53	46	41	46	40	36	38	34	31	32	29	26	23
6	63	52	44	38	58	48	41	36	41	36	31	35	30	27	29	26	23	20
7	59	47	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	24	44	33	27	22	29	24	20	25	21	18	21	18	15	13

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POLAR GRAPH



Maximum Candela = 1330.883 Located At Horizontal Angle = 90, Vertical Angle = 120
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)