

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 : HPO-P-ID-4FT-H-V-835-RT-RB-RE-ITL93794.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL93794.007 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]08/19/20

[TESTDATE]09/04/20

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HPO-P-ID-4ft-H-V-835-RT-RB-RE

[_INPUT_ELECTRICAL]120.0 VOLTS, 61.0 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 61.3 WATTS

[_ABSOLUTE]LUMENS]7521

[OTHER]see www.finelite.com for source file ITL93794. 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	7521
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	61
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 w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.04 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15932	14471	14298
55	15005	13302	13456
65	13802	12279	13132
75	12327	12134	14343
85	9888	16281	19858

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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	1335.000	1335.000	1335.000	1335.000	1335.000
2.5	1333.000	1333.000	1333.000	1333.000	1333.000
5.0	1327.000	1328.000	1328.000	1329.000	1329.000
7.5	1319.000	1318.000	1320.000	1321.000	1322.000
10.0	1306.000	1305.000	1310.000	1312.000	1311.000
12.5	1292.000	1288.000	1295.000	1299.000	1298.000
15.0	1273.000	1267.000	1278.000	1283.000	1282.000
17.5	1252.000	1243.000	1258.000	1265.000	1263.000
20.0	1225.000	1218.000	1233.000	1243.000	1242.000
22.5	1197.000	1190.000	1207.000	1218.000	1216.000
25.0	1164.000	1158.000	1179.000	1189.000	1191.000
27.5	1131.000	1125.000	1147.000	1158.000	1160.000
30.0	1094.000	1089.000	1114.000	1127.000	1128.000
32.5	1054.000	1052.000	1076.000	1091.000	1094.000
35.0	1015.000	1013.000	1039.000	1053.000	1058.000
37.5	973.000	972.000	999.000	1015.000	1020.000
40.0	927.000	930.000	956.000	976.000	981.000
42.5	882.000	887.000	914.000	935.000	942.000
45.0	838.000	841.000	871.000	891.000	901.000
47.5	789.000	795.000	826.000	849.000	860.000
50.0	740.000	748.000	779.000	806.000	819.000
52.5	692.000	701.000	734.000	765.000	778.000
55.0	643.000	650.000	687.000	722.000	739.000
57.5	594.000	602.000	641.000	681.000	699.000
60.0	540.000	553.000	594.000	643.000	662.000
62.5	490.000	504.000	551.000	604.000	627.000
65.0	439.000	454.000	510.000	567.000	593.000
67.5	390.000	406.000	470.000	535.000	562.000
70.0	340.000	360.000	431.000	504.000	533.000
72.5	292.000	316.000	396.000	478.000	508.000
75.0	244.000	272.000	366.000	454.000	488.000
77.5	198.000	233.000	341.000	435.000	469.000
80.0	153.000	199.000	318.000	418.000	454.000
82.5	111.000	171.000	303.000	406.000	443.000
85.0	71.000	151.000	291.000	396.000	434.000
87.5	30.000	140.000	284.000	391.000	431.000
90.0	0.000	105.790	219.360	303.373	333.711
92.5	28.004	110.459	223.252	306.485	337.600
95.0	61.453	121.349	230.253	311.930	343.045
97.5	94.124	138.463	240.365	320.487	350.824
100.0	127.572	164.133	254.367	333.711	360.937
102.5	162.577	192.137	273.036	346.935	374.161
105.0	202.249	223.252	296.372	364.048	390.496
107.5	239.587	256.700	322.043	384.273	408.387
110.0	278.481	294.817	350.046	408.387	429.390
112.5	317.375	333.711	380.384	434.057	453.504
115.0	358.603	371.827	413.055	460.505	480.730
117.5	402.164	410.721	448.059	490.065	507.956
120.0	441.836	450.393	485.397	521.958	536.737
122.5	480.730	489.287	521.958	554.629	567.075
125.0	522.736	527.403	560.074	586.522	597.412
127.5	563.963	568.631	597.412	618.415	630.861
130.0	602.857	609.858	633.972	652.642	661.976
132.5	644.085	651.086	669.755	689.202	696.203

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HPO-P-ID-4FT-H-V-835-RT-RB-RE-ITL93794.007.IES****CANDELA TABULATION - (Cont.)**

135.0	682.201	686.091	703.982	723.429	730.430
137.5	722.651	720.317	740.542	757.655	767.768
140.0	757.655	753.766	773.213	790.327	801.217
142.5	791.104	788.771	805.884	826.109	832.332
145.0	825.331	820.664	840.111	857.224	863.447
147.5	858.002	851.779	872.782	886.006	890.673
150.0	888.339	881.338	903.119	914.010	919.455
152.5	916.343	911.676	931.123	940.457	944.347
155.0	942.791	938.124	956.015	963.794	968.461
157.5	970.017	964.572	981.685	986.352	990.242
160.0	992.575	987.130	1001.910	1005.021	1008.133
162.5	1011.245	1008.911	1019.023	1023.691	1023.691
165.0	1027.580	1025.246	1034.581	1037.693	1036.137
167.5	1041.582	1040.026	1047.027	1050.139	1049.361
170.0	1053.250	1052.472	1057.139	1058.695	1058.695
172.5	1061.807	1063.362	1064.918	1065.696	1066.474
175.0	1069.586	1069.586	1070.363	1070.363	1070.363
177.5	1072.697	1072.697	1073.475	1072.697	1073.475
180.0	1074.253	1074.253	1074.253	1074.253	1074.253

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	486.25	N.A.	6.50
0-30	1028.02	N.A.	13.70
0-40	1675.73	N.A.	22.30
0-60	2961.32	N.A.	39.40
0-80	3857.79	N.A.	51.30
0-90	4151.58	N.A.	55.20
10-90	4025.42	N.A.	53.50
20-40	1189.48	N.A.	15.80
20-50	1859.41	N.A.	24.70
40-70	1794.05	N.A.	23.90
60-80	896.47	N.A.	11.90
70-80	388.01	N.A.	5.20
80-90	293.79	N.A.	3.90
90-110	552.67	N.A.	7.30
90-120	966.21	N.A.	12.80
90-130	1466.46	N.A.	19.50
90-150	2536.5	N.A.	33.70
90-180	3369.03	N.A.	44.80
110-180	2816.36	N.A.	37.40
0-180	7520.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.16
10-20	360.09
20-30	541.77
30-40	647.71
40-50	669.93
50-60	615.65
60-70	508.46
70-80	388.01
80-90	293.79
90-100	239.05
100-110	313.63
110-120	413.54
120-130	500.25
130-140	544.32
140-150	525.72
150-160	439.49
160-170	291.33
170-180	101.70

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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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	97	92	88	84	90	86	82	78	73	70	68	62	60	58	52	50	49	43
2	88	80	73	68	81	74	68	63	64	59	55	54	50	47	45	42	40	35
3	80	70	62	56	74	65	58	52	56	50	46	47	43	40	39	36	34	30
4	73	62	53	47	68	58	50	44	49	44	39	42	37	34	35	31	29	25
5	67	55	46	40	62	51	44	38	44	38	33	38	33	29	31	28	25	22
6	62	49	41	35	57	46	38	33	40	34	29	34	29	25	28	25	22	19
7	57	44	36	30	53	42	34	29	36	30	25	31	26	22	26	22	19	17
8	53	40	32	27	49	38	30	25	33	27	23	28	23	20	24	20	17	15
9	49	37	29	24	46	34	27	23	30	24	20	26	21	18	22	18	15	13
10	46	34	26	21	43	32	25	20	28	22	18	24	19	16	20	17	14	12

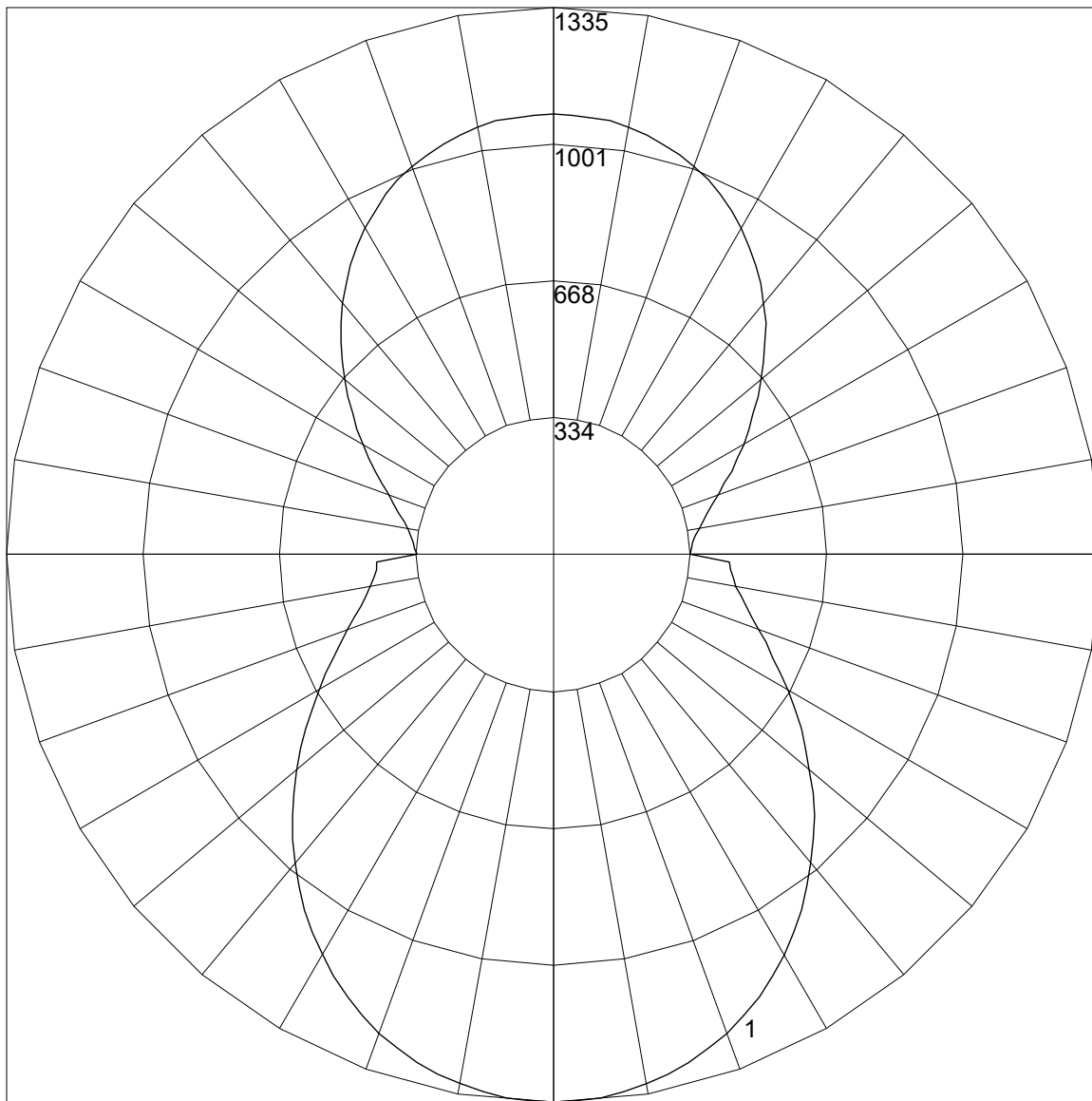
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.8	17.8	17.7	18.7	19.9	18.3	19.3	19.2	20.2	21.4
	3H	18.4	19.3	19.3	20.2	21.4	20.8	21.7	21.7	22.6	23.8
	4H	19.0	19.8	19.9	20.7	21.9	22.2	23.0	23.1	23.9	25.1
	6H	19.3	20.1	20.3	21.1	22.3	23.7	24.4	24.6	25.4	26.6
	8H	19.5	20.2	20.4	21.1	22.4	24.6	25.3	25.5	26.2	27.5
	12H	19.5	20.2	20.5	21.2	22.4	25.6	26.3	26.5	27.2	28.5
4H	2H	17.6	18.4	18.5	19.3	20.6	18.7	19.6	19.7	20.5	21.7
	3H	19.4	20.1	20.3	21.1	22.3	21.5	22.2	22.4	23.2	24.4
	4H	20.1	20.7	21.0	21.7	22.9	23.0	23.7	24.0	24.6	25.9
	6H	20.6	21.1	21.6	22.1	23.4	24.8	25.3	25.7	26.3	27.6
	8H	20.8	21.3	21.7	22.3	23.5	25.8	26.3	26.7	27.3	28.6
	12H	20.8	21.3	21.8	22.3	23.6	26.9	27.4	27.9	28.4	29.7
8H	4H	20.8	21.3	21.7	22.3	23.5	23.3	23.8	24.2	24.8	26.0
	6H	21.5	21.9	22.5	22.9	24.2	25.2	25.7	26.2	26.7	28.0
	8H	21.8	22.1	22.8	23.2	24.5	26.4	26.8	27.4	27.8	29.1
	12H	22.0	22.3	23.0	23.3	24.6	27.8	28.1	28.8	29.1	30.5
12H	4H	21.0	21.4	22.0	22.4	23.7	23.2	23.7	24.2	24.7	26.0
	6H	21.8	22.2	22.8	23.2	24.6	25.3	25.7	26.3	26.7	28.0
	8H	22.2	22.6	23.2	23.6	24.9	26.5	26.9	27.5	27.9	29.2

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 1335 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)