

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-4-ID-RG-4FT-V-S-835-TG-F-ITL90353.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353.004 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]04/03/18

[ISSUEDATE]05/18/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-ID-RG-4ft-V-S-835-TG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 50.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 53.1 WATTS

[_ABSOLUTE]LUMENS]5851

[OTHER]see www.finelite.com for source file ITL90353. 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	5851
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	50.9
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)	4.00 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4278	3908	3623
55	3987	3438	3069
65	3626	2841	2373
75	3161	1956	1490
85	2309	1270	1193

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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	616.803	616.803	616.803	616.803	616.803
2.5	615.575	615.166	615.575	615.575	615.575
5.0	612.710	612.301	612.301	612.710	613.119
7.5	608.208	607.799	607.799	607.799	607.389
10.0	602.478	600.431	601.250	600.022	598.385
12.5	594.292	591.836	591.836	589.381	586.516
15.0	584.878	580.785	580.376	577.102	573.009
17.5	573.418	568.507	566.460	561.958	557.865
20.0	559.911	554.181	550.907	544.768	541.084
22.5	545.177	539.038	533.717	526.350	522.257
25.0	529.215	522.257	515.299	506.294	502.201
27.5	512.024	504.248	495.243	485.420	480.918
30.0	493.197	485.420	474.779	463.728	458.407
32.5	473.551	465.774	453.086	440.808	434.259
35.0	453.905	444.900	430.985	417.478	410.520
37.5	433.440	423.208	407.655	392.511	386.372
40.0	412.157	401.515	383.916	368.772	361.814
42.5	390.874	379.004	360.996	344.215	337.257
45.0	369.181	356.493	337.257	319.248	312.699
47.5	347.489	333.573	313.518	294.690	288.142
50.0	324.978	310.243	288.960	269.723	263.175
52.5	302.058	286.914	264.812	245.575	239.027
55.0	279.137	263.993	240.664	221.427	214.878
57.5	256.626	240.664	216.925	197.688	191.139
60.0	233.706	217.334	193.186	173.949	167.400
62.5	210.785	194.004	169.447	150.619	144.480
65.0	187.046	171.084	146.527	128.108	122.378
67.5	164.535	148.164	123.606	106.416	100.686
70.0	142.024	125.653	101.914	85.133	80.221
72.5	119.923	103.960	81.449	65.896	60.985
75.0	99.867	83.086	61.803	49.115	47.069
77.5	79.403	63.440	44.204	39.292	38.883
80.0	59.757	44.613	31.925	30.697	30.697
82.5	42.566	27.013	22.920	22.102	22.102
85.0	24.558	14.735	13.507	13.097	12.688
87.5	7.777	4.912	4.502	4.502	4.093
90.0	0.000	0.000	0.000	0.000	0.000
92.5	30.000	33.000	36.000	37.000	37.000
95.0	75.000	78.000	81.000	84.000	85.000
97.5	121.000	125.000	130.000	134.000	135.000
100.0	170.000	174.000	180.000	185.000	185.000
102.5	221.000	225.000	232.000	238.000	238.000
105.0	276.000	281.000	287.000	293.000	293.000
107.5	333.000	337.000	343.000	350.000	349.000
110.0	392.000	395.000	401.000	407.000	407.000
112.5	452.000	455.000	461.000	467.000	466.000
115.0	514.000	516.000	523.000	528.000	526.000
117.5	576.000	576.000	584.000	586.000	587.000
120.0	639.000	639.000	645.000	648.000	649.000
122.5	703.000	703.000	707.000	710.000	713.000
125.0	765.000	764.000	768.000	772.000	774.000
127.5	827.000	825.000	830.000	833.000	837.000
130.0	889.000	886.000	891.000	895.000	897.000
132.5	948.000	944.000	950.000	955.000	956.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-V-S-835-TG-F-ITL90353.004.IES****CANDELA TABULATION - (Cont.)**

135.0	1010.000	1003.000	1011.000	1016.000	1016.000
137.5	1070.000	1061.000	1070.000	1073.000	1074.000
140.0	1126.000	1117.000	1129.000	1129.000	1131.000
142.5	1184.000	1173.000	1185.000	1185.000	1183.000
145.0	1241.000	1227.000	1240.000	1239.000	1237.000
147.5	1294.000	1279.000	1292.000	1291.000	1287.000
150.0	1343.000	1328.000	1341.000	1339.000	1337.000
152.5	1390.000	1376.000	1389.000	1386.000	1383.000
155.0	1434.000	1421.000	1433.000	1431.000	1426.000
157.5	1474.000	1461.000	1473.000	1468.000	1465.000
160.0	1512.000	1501.000	1511.000	1506.000	1501.000
162.5	1545.000	1535.000	1543.000	1538.000	1535.000
165.0	1574.000	1566.000	1571.000	1568.000	1565.000
167.5	1599.000	1593.000	1596.000	1594.000	1592.000
170.0	1619.000	1616.000	1617.000	1616.000	1614.000
172.5	1634.000	1634.000	1634.000	1632.000	1632.000
175.0	1646.000	1646.000	1646.000	1645.000	1645.000
177.5	1654.000	1654.000	1654.000	1654.000	1654.000
180.0	1656.000	1656.000	1656.000	1656.000	1656.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	221.15	N.A.	3.80
0-30	458.04	N.A.	7.80
0-40	727.57	N.A.	12.40
0-60	1206.16	N.A.	20.60
0-80	1427.64	N.A.	24.40
0-90	1445.34	N.A.	24.70
10-90	1387.24	N.A.	23.70
20-40	506.42	N.A.	8.70
20-50	767.47	N.A.	13.10
40-70	627.37	N.A.	10.70
60-80	221.47	N.A.	3.80
70-80	72.70	N.A.	1.20
80-90	17.71	N.A.	0.30
90-110	394.31	N.A.	6.70
90-120	910.53	N.A.	15.60
90-130	1597.66	N.A.	27.30
90-150	3149.91	N.A.	53.80
90-180	4405.95	N.A.	75.30
110-180	4011.64	N.A.	68.60
0-180	5851.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.10
10-20	163.05
20-30	236.89
30-40	269.53
40-50	261.05
50-60	217.54
60-70	148.78
70-80	72.70
80-90	17.71
90-100	90.98
100-110	303.32
110-120	516.22
120-130	687.13
130-140	779.42
140-150	772.83
150-160	657.60
160-170	442.28
170-180	156.16

IES INDOOR REPORT

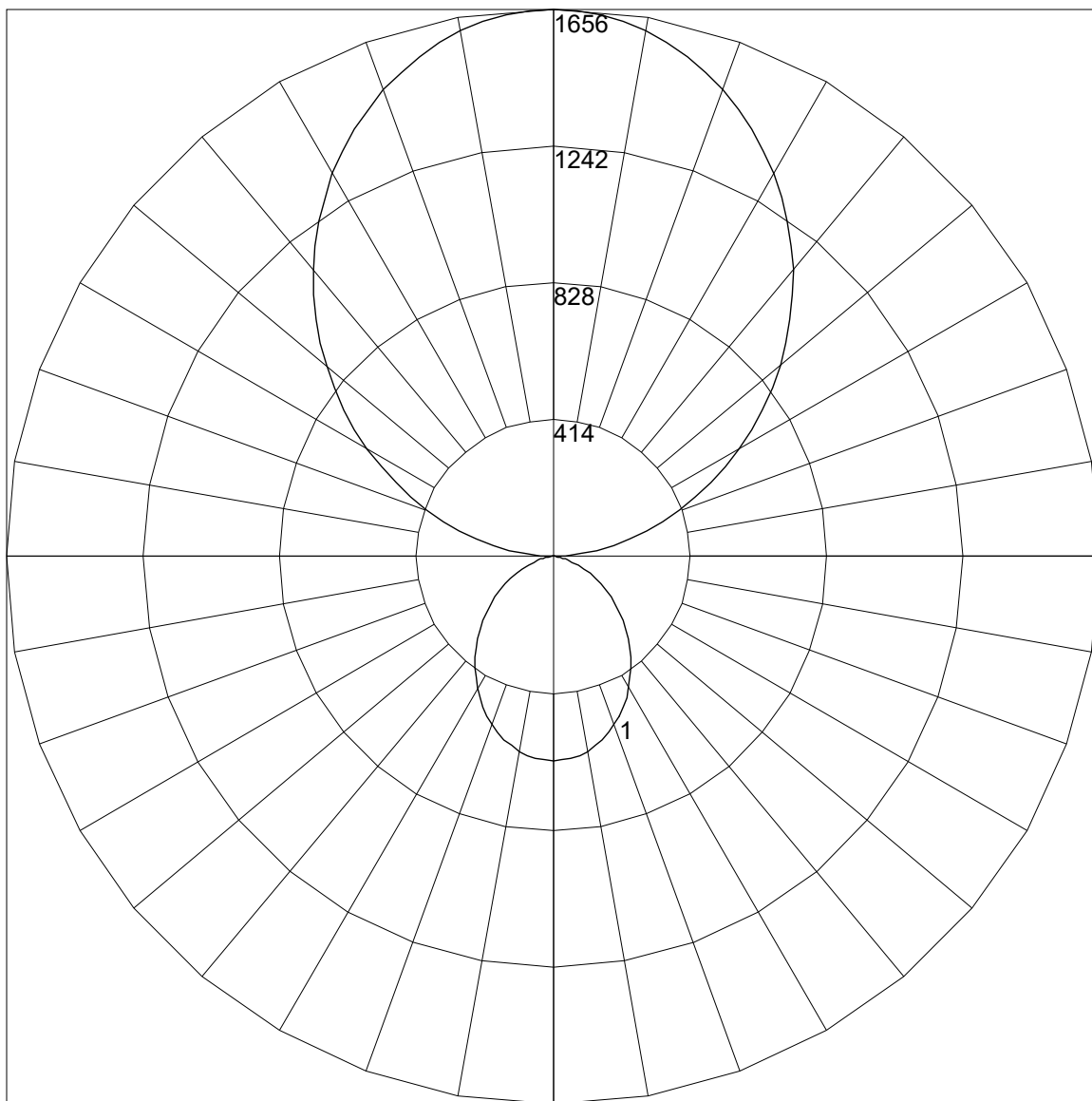
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	88	85	81	82	79	76	73	61	59	57	44	43	42	29	29	28	21
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24	18
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	23	22	20	15
4	70	60	52	47	62	54	47	42	42	37	34	31	28	26	21	19	18	13
5	64	53	46	40	57	48	41	36	37	33	29	28	25	22	19	17	15	12
6	59	48	40	34	52	43	36	31	34	29	25	25	22	19	17	15	14	10
7	55	43	35	30	48	39	32	27	30	26	22	23	19	17	15	13	12	9
8	51	39	31	26	45	35	29	24	28	23	20	21	17	15	14	12	11	8
9	47	35	28	23	42	32	26	21	25	21	17	19	16	14	13	11	10	7
10	44	32	25	21	39	29	23	19	23	19	16	17	14	12	12	10	9	7

POLAR GRAPH



Maximum Candela = 1656 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)