

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-ID-RG-4FT-V-B-835-TG-F-ITL90352.005.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90352.005 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]04/04/18

[ISSUEDATE]05/17/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-RG-4ft-V-B-835-TG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 54.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 56.9 WATTS

[_ABSOLUTE]LUMENS]5811

[OTHER]see www.finelite.com for source file ITL90352. 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	5811
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	54.8
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)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9636	6774	5337
55	8596	5326	4128
65	7451	4030	3198
75	6219	3109	2838
85	4303	2331	2152

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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	815.731	815.731	815.731	815.731	815.731
2.5	814.188	814.188	813.158	812.129	811.614
5.0	809.556	808.526	804.924	801.836	800.806
7.5	802.865	799.777	792.057	784.852	782.279
10.0	793.601	786.911	774.559	762.207	756.031
12.5	781.764	770.956	751.914	734.930	725.667
15.0	767.868	750.885	726.181	701.992	690.670
17.5	750.885	728.755	696.331	666.481	653.100
20.0	732.357	703.536	664.422	628.396	613.986
22.5	711.256	676.774	630.455	590.312	572.813
25.0	686.553	648.468	595.458	549.654	532.155
27.5	661.334	617.588	559.947	510.540	491.498
30.0	633.028	586.194	522.892	471.426	451.354
32.5	605.237	554.800	486.351	432.827	412.755
35.0	575.387	521.348	450.325	396.286	375.700
37.5	544.507	488.924	415.328	360.260	340.188
40.0	513.628	455.471	380.846	326.807	307.250
42.5	482.234	422.019	346.879	295.413	276.371
45.0	448.781	390.110	315.485	265.563	248.579
47.5	417.387	358.201	285.120	237.772	222.332
50.0	384.964	326.293	255.785	212.039	198.143
52.5	355.628	295.928	227.993	188.364	176.527
55.0	324.749	266.078	201.231	166.749	155.941
57.5	293.869	236.742	177.042	146.677	136.899
60.0	264.534	209.465	153.882	127.635	118.886
62.5	235.713	183.218	132.781	109.107	101.387
65.0	207.407	158.000	112.195	91.609	89.036
67.5	180.645	134.840	93.668	80.801	78.743
70.0	154.397	112.195	76.169	69.993	68.449
72.5	129.694	90.580	63.818	59.700	58.156
75.0	106.019	71.023	53.010	49.407	48.378
77.5	83.374	52.495	42.202	39.629	38.599
80.0	62.788	37.570	31.909	30.365	29.850
82.5	43.231	26.247	22.645	21.616	21.101
85.0	24.703	15.440	13.381	12.866	12.352
87.5	7.720	5.661	5.147	4.632	4.117
90.0	0.000	0.000	0.000	0.000	0.000
92.5	30.000	29.000	28.000	26.000	25.000
95.0	69.000	69.000	69.000	66.000	64.000
97.5	110.000	110.000	108.000	108.000	106.000
100.0	154.000	154.000	153.000	152.000	151.000
102.5	201.000	200.000	200.000	199.000	198.000
105.0	251.000	250.000	250.000	249.000	247.000
107.5	304.000	303.000	303.000	301.000	299.000
110.0	359.000	357.000	358.000	355.000	354.000
112.5	417.000	415.000	416.000	412.000	411.000
115.0	478.000	474.000	476.000	471.000	470.000
117.5	539.000	536.000	536.000	533.000	531.000
120.0	602.000	598.000	599.000	594.000	592.000
122.5	667.000	661.000	663.000	658.000	656.000
125.0	734.000	726.000	728.000	723.000	721.000
127.5	801.000	792.000	794.000	790.000	784.000
130.0	868.000	858.000	861.000	857.000	850.000
132.5	933.000	924.000	928.000	923.000	917.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-V-B-835-TG-F-ITL90352.005.IES****CANDELA TABULATION - (Cont.)**

135.0	1000.000	990.000	994.000	990.000	982.000
137.5	1069.000	1056.000	1061.000	1057.000	1048.000
140.0	1135.000	1121.000	1127.000	1122.000	1113.000
142.5	1201.000	1184.000	1192.000	1186.000	1176.000
145.0	1265.000	1245.000	1253.000	1248.000	1238.000
147.5	1323.000	1304.000	1313.000	1308.000	1298.000
150.0	1380.000	1361.000	1370.000	1364.000	1355.000
152.5	1433.000	1413.000	1424.000	1417.000	1409.000
155.0	1482.000	1463.000	1476.000	1467.000	1460.000
157.5	1528.000	1509.000	1521.000	1513.000	1507.000
160.0	1566.000	1551.000	1562.000	1555.000	1550.000
162.5	1603.000	1589.000	1598.000	1592.000	1587.000
165.0	1635.000	1623.000	1630.000	1626.000	1621.000
167.5	1661.000	1653.000	1657.000	1655.000	1650.000
170.0	1683.000	1678.000	1680.000	1678.000	1676.000
172.5	1698.000	1698.000	1698.000	1696.000	1696.000
175.0	1712.000	1711.000	1711.000	1710.000	1709.000
177.5	1719.000	1719.000	1719.000	1719.000	1719.000
180.0	1722.000	1722.000	1722.000	1722.000	1722.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	279.80	N.A.	4.80
0-30	555.75	N.A.	9.60
0-40	843.88	N.A.	14.50
0-60	1294.94	N.A.	22.30
0-80	1489.5	N.A.	25.60
0-90	1506.99	N.A.	25.90
10-90	1431.11	N.A.	24.60
20-40	564.08	N.A.	9.70
20-50	819.04	N.A.	14.10
40-70	578.92	N.A.	10.00
60-80	194.55	N.A.	3.30
70-80	66.69	N.A.	1.10
80-90	17.50	N.A.	0.30
90-110	341.49	N.A.	5.90
90-120	811.42	N.A.	14.00
90-130	1461.18	N.A.	25.10
90-150	3006.93	N.A.	51.70
90-180	4303.57	N.A.	74.10
110-180	3962.08	N.A.	68.20
0-180	5810.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.89
10-20	203.91
20-30	275.95
30-40	288.13
40-50	254.96
50-60	196.11
60-70	127.86
70-80	66.69
80-90	17.50
90-100	76.22
100-110	265.27
110-120	469.92
120-130	649.77
130-140	764.96
140-150	780.78
150-160	675.99
160-170	458.37
170-180	162.28

IES INDOOR REPORT

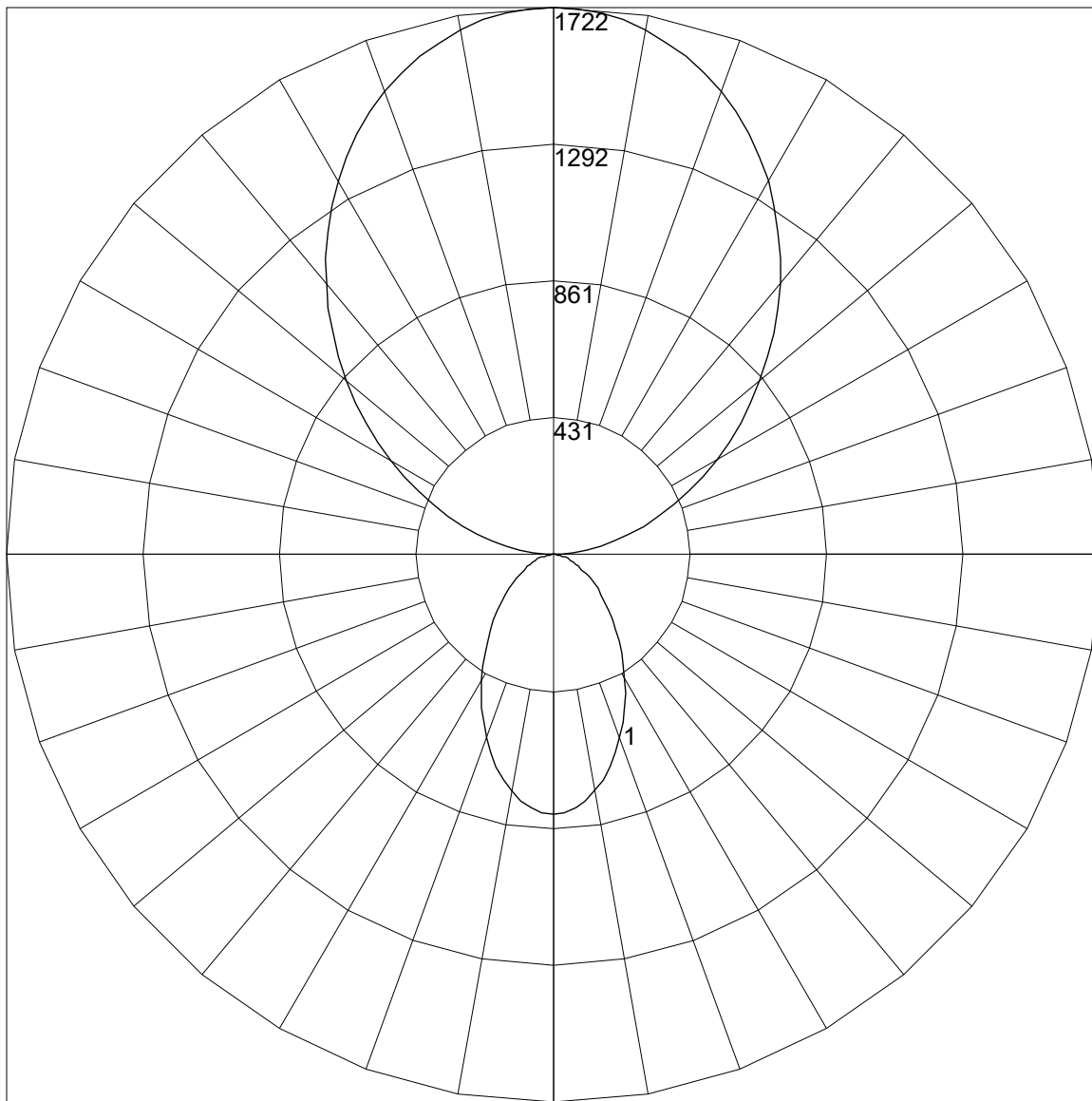
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	70	70	70	51	51	51	34	34	34	26
1	93	89	85	82	83	79	76	74	62	60	58	45	44	43	30	30	29	22
2	85	78	72	67	75	70	65	61	54	51	48	40	38	36	27	26	25	19
3	77	69	62	56	69	61	56	51	48	44	41	36	33	31	24	23	22	17
4	71	61	53	48	63	55	48	43	43	39	35	32	29	27	22	20	19	15
5	65	54	47	41	58	49	42	37	38	34	30	29	26	23	20	18	17	13
6	60	49	41	36	53	44	37	32	35	30	27	26	23	21	18	16	15	12
7	55	44	36	31	49	40	33	28	31	27	23	24	21	18	17	15	13	10
8	51	40	32	27	46	36	30	25	29	24	21	22	19	16	15	13	12	9
9	48	36	29	24	43	33	27	22	26	22	19	20	17	15	14	12	11	9
10	45	33	26	22	40	30	24	20	24	20	17	19	15	13	13	11	10	8

POLAR GRAPH



Maximum Candela = 1722 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)