

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-R-RG-4FT-H-835-ITL90351.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90351.003 Family Correlation file
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]04/03/18
[ISSUE DATE]10/11/18
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-2-R-RG-4ft-H-835
[INPUT_ELECTRICAL]120.0 VOLTS, 28.4 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 29.0 WATTS
[ABSOLUTE LUMENS]2261
[OTHER]see www.finelite.com for source file ITL90350. 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	2261
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	28.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	1.10
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	14478	10170	8032
55	12949	8008	6238
65	11372	6091	4806
75	9626	4699	4289
85	7316	3658	3523

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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	1208.667	1208.667	1208.667	1208.667	1208.667
2.5	1207.111	1206.333	1205.556	1204.778	1204.778
5.0	1200.111	1199.333	1194.667	1190.000	1189.222
7.5	1191.556	1186.889	1176.000	1165.111	1162.000
10.0	1178.333	1169.000	1150.333	1131.667	1125.444
12.5	1161.222	1144.889	1118.444	1090.444	1081.889
15.0	1141.000	1116.889	1080.333	1044.556	1029.778
17.5	1115.333	1085.778	1036.778	993.222	973.778
20.0	1087.333	1048.444	990.111	938.000	915.444
22.5	1057.000	1011.111	941.111	879.667	855.556
25.0	1022.000	968.333	889.000	820.556	795.667
27.5	985.444	924.778	836.111	761.444	735.000
30.0	945.000	878.889	782.444	703.111	675.889
32.5	903.000	831.444	728.778	645.556	616.000
35.0	859.444	783.222	673.556	590.333	561.556
37.5	814.333	734.222	622.222	539.778	510.222
40.0	767.667	684.444	569.333	489.222	460.444
42.5	721.778	635.444	521.111	443.333	416.111
45.0	674.333	587.222	473.667	398.222	374.111
47.5	626.889	539.000	427.778	356.222	334.444
50.0	581.000	493.111	385.000	317.333	298.667
52.5	534.333	447.222	342.222	282.333	266.000
55.0	489.222	402.889	302.556	249.667	235.667
57.5	444.889	360.111	266.000	219.333	206.889
60.0	401.333	318.889	231.778	191.333	179.667
62.5	358.556	280.000	199.889	164.111	154.778
65.0	316.556	241.111	169.556	138.444	133.778
67.5	276.111	205.333	141.556	120.556	119.000
70.0	237.222	170.333	115.111	105.000	103.444
72.5	199.889	138.444	95.667	89.444	88.667
75.0	164.111	108.111	80.111	73.889	73.111
77.5	130.667	80.889	63.778	59.889	59.889
80.0	98.778	57.556	49.000	45.889	45.889
82.5	69.222	40.444	34.222	32.667	32.667
85.0	42.000	24.889	21.000	20.222	20.222
87.5	16.333	10.111	9.333	8.556	8.556
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	416.04	N.A.	18.40
0-30	827.98	N.A.	36.60
0-40	1259.23	N.A.	55.70
0-60	1937.81	N.A.	85.70
0-80	2233.23	N.A.	98.80
0-90	2261.00	N.A.	100.00
10-90	2148.36	N.A.	95.00
20-40	843.18	N.A.	37.30
20-50	1226.17	N.A.	54.20
40-70	872.42	N.A.	38.60
60-80	295.42	N.A.	13.10
70-80	101.58	N.A.	4.50
80-90	27.77	N.A.	1.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2261.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	112.63
10-20	303.41
20-30	411.94
30-40	431.25
40-50	382.98
50-60	295.60
60-70	193.84
70-80	101.58
80-90	27.77
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

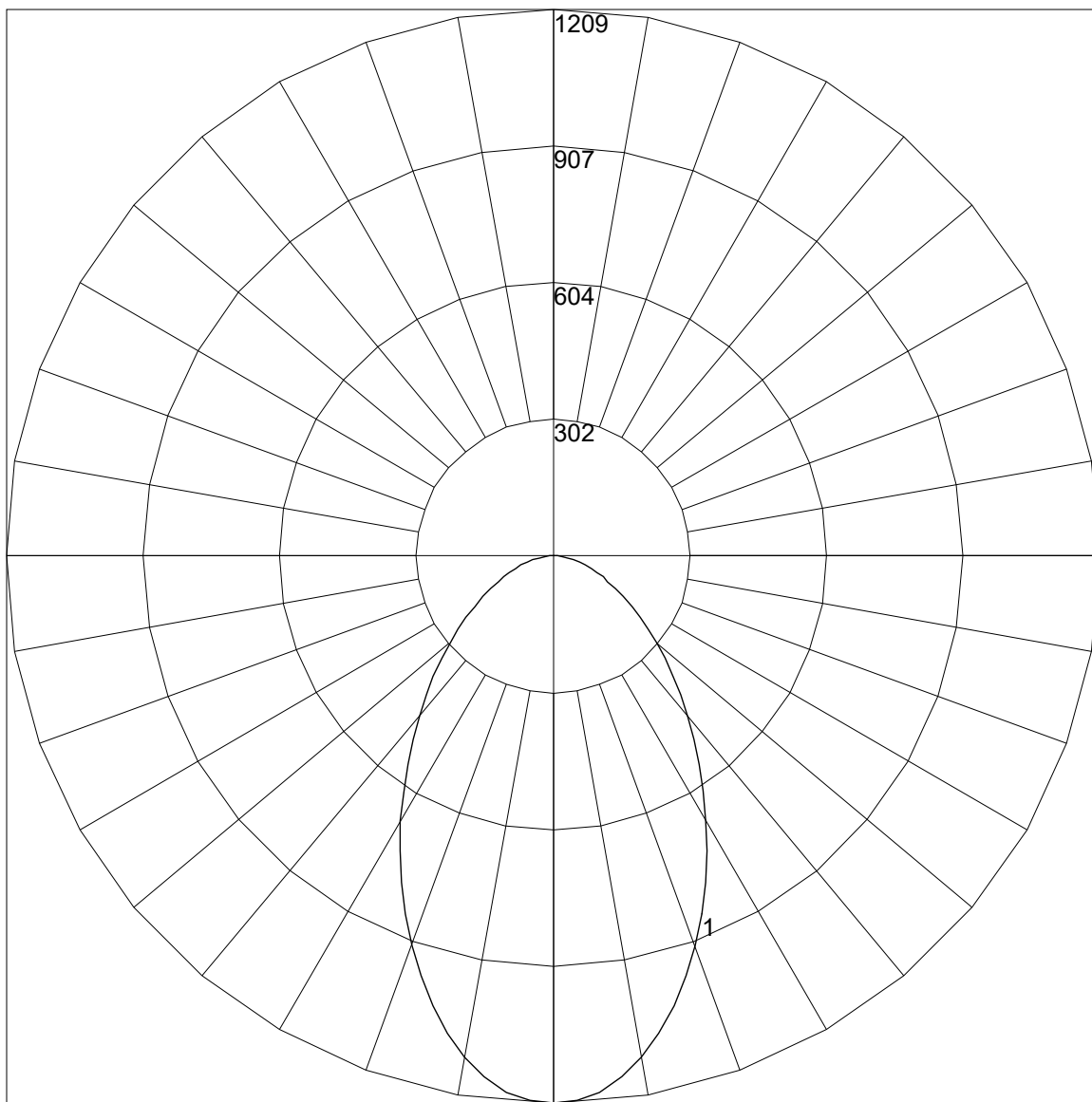
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	45
7	69	57	49	43	68	56	48	43	54	48	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

POLAR GRAPH



Maximum Candela = 1208.667 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)