

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-D-RG-4FT-H-835-F-ITL90350.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90350.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]04/03/18
[ISSUEDATE]05/29/18
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-2-D-RG-4ft-H-835-F
[INPUT_ELECTRICAL]120.0 VOLTS, 28.2 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 29.0 WATTS
[ABSOLUTE LUMENS]2245
[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	2245
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	28.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	1.12
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	14275	10151	8047
55	12844	8068	6278
65	11370	6118	4777
75	9670	4698	4288
85	7721	3793	3522

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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	1188.987	1188.987	1188.987	1188.987	1188.987
2.5	1187.432	1186.654	1185.876	1185.099	1184.321
5.0	1181.988	1180.433	1176.545	1171.879	1169.546
7.5	1172.657	1168.769	1157.882	1148.550	1143.885
10.0	1159.437	1150.106	1133.775	1116.668	1109.669
12.5	1143.107	1125.999	1101.893	1077.009	1066.900
15.0	1122.111	1098.005	1065.345	1031.907	1017.910
17.5	1098.782	1066.900	1023.353	982.139	964.253
20.0	1071.566	1031.907	978.251	929.260	908.265
22.5	1038.905	993.026	930.038	872.494	849.165
25.0	1005.468	951.811	879.492	815.727	790.843
27.5	968.919	908.265	827.392	758.183	731.744
30.0	930.038	863.940	775.291	699.861	674.200
32.5	887.269	818.838	722.412	642.317	618.211
35.0	844.499	772.180	670.312	588.661	561.444
37.5	800.952	724.745	618.989	536.560	510.121
40.0	755.850	676.533	568.443	487.570	461.909
42.5	710.748	629.875	519.453	440.913	416.806
45.0	664.868	582.440	472.795	397.366	374.815
47.5	618.211	537.338	427.693	356.152	336.711
50.0	572.331	491.458	384.146	317.270	300.163
52.5	529.562	446.356	343.710	283.055	267.503
55.0	485.237	401.254	304.829	250.395	237.175
57.5	441.690	359.262	267.503	220.068	208.403
60.0	398.921	318.826	232.510	191.295	181.186
62.5	356.929	279.167	200.627	164.856	155.525
65.0	316.493	241.841	170.300	138.417	132.974
67.5	275.279	206.070	142.305	119.754	118.199
70.0	237.175	171.855	116.644	104.202	102.646
72.5	200.627	139.972	96.425	89.427	87.094
75.0	164.856	109.645	80.095	73.874	73.097
77.5	132.974	81.650	63.765	59.877	59.099
80.0	101.869	57.544	48.990	45.880	45.880
82.5	71.541	40.436	34.993	32.660	32.660
85.0	44.325	24.884	21.773	20.218	20.218
87.5	18.663	10.887	9.331	8.554	8.554
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	410.09	N.A.	18.30
0-30	817.18	N.A.	36.40
0-40	1244.56	N.A.	55.40
0-60	1921.03	N.A.	85.60
0-80	2217.03	N.A.	98.70
0-90	2245.25	N.A.	100.00
10-90	2134.34	N.A.	95.10
20-40	834.47	N.A.	37.20
20-50	1215.47	N.A.	54.10
40-70	870.44	N.A.	38.80
60-80	296.01	N.A.	13.20
70-80	102.03	N.A.	4.50
80-90	28.21	N.A.	1.30
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	2245.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.91
10-20	299.19
20-30	407.09
30-40	427.38
40-50	381.00
50-60	295.46
60-70	193.97
70-80	102.03
80-90	28.21
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

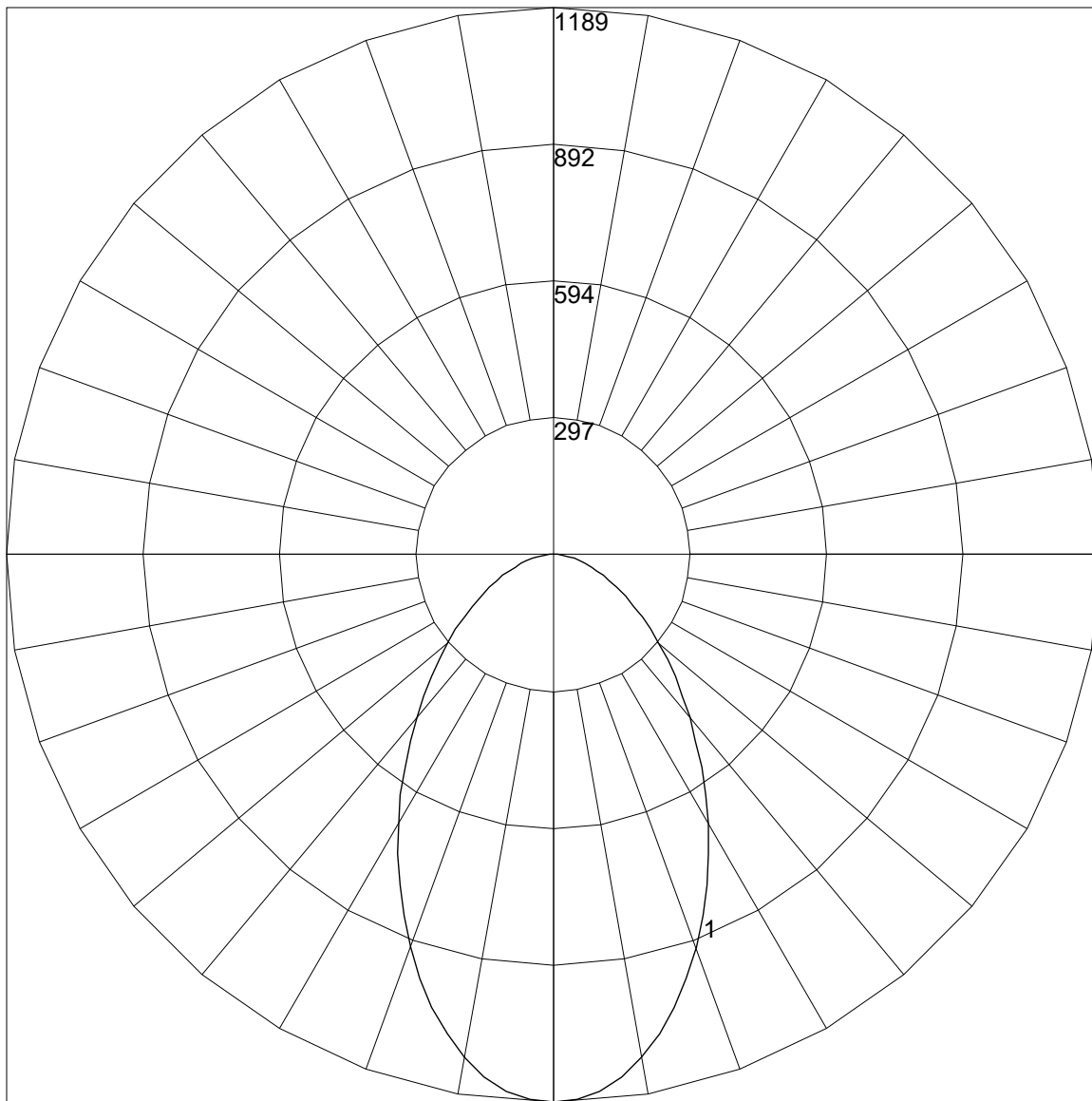
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

POLAR GRAPH



Maximum Candela = 1188.987 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)