

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-D-RG-4FT-H-835-RG-WCB-ITL90672.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90672.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/30/18

[ISSUEDATE]02/12/19

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-D-RG-4ft-H-835-RG-WCB

[_INPUT_ELECTRICAL]120.0 VOLTS, 28.3 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 29.1 WATTS

[_ABSOLUTE]LUMENS]2334

[OTHER]see www.finelite.com for source file ITL90672. 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	2334
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	28.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.10
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.30 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4806	6186	8497
55	4006	4586	7373
65	3439	3800	5831
75	2969	3156	4011
85	2383	2383	2700

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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	1272.384	1272.384	1272.384	1272.384	1272.384
2.5	1264.607	1265.384	1267.717	1270.828	1270.828
5.0	1242.052	1245.163	1252.940	1262.273	1265.384
7.5	1209.387	1215.609	1231.164	1249.052	1256.051
10.0	1169.722	1177.500	1201.609	1231.164	1242.052
12.5	1123.835	1132.391	1166.611	1204.720	1221.053
15.0	1077.171	1086.504	1126.946	1170.500	1192.277
17.5	1026.618	1035.173	1081.060	1133.946	1161.167
20.0	971.398	981.509	1032.062	1091.948	1125.391
22.5	913.845	927.067	980.731	1048.395	1088.059
25.0	857.070	871.847	927.845	1000.175	1047.617
27.5	798.740	815.072	873.403	951.177	1004.063
30.0	741.187	755.186	818.961	901.402	961.288
32.5	680.523	699.189	762.964	850.848	916.956
35.0	619.082	639.303	708.522	799.518	867.959
37.5	559.973	580.972	652.525	747.409	820.517
40.0	500.865	523.420	599.638	697.633	772.297
42.5	439.424	466.644	545.196	647.080	724.077
45.0	381.871	409.092	491.532	594.972	675.079
47.5	342.206	356.205	440.979	545.196	624.526
50.0	312.652	318.874	390.426	496.199	573.973
52.5	286.209	290.097	340.650	446.423	524.197
55.0	258.210	263.654	295.541	399.759	475.200
57.5	234.100	237.989	260.543	353.094	424.646
60.0	209.990	212.323	232.544	308.763	376.427
62.5	186.658	188.213	205.324	265.987	326.651
65.0	163.326	166.437	180.436	225.545	276.876
67.5	143.104	145.438	155.548	186.658	230.989
70.0	123.661	124.439	132.216	154.770	185.880
72.5	104.995	105.773	111.217	126.772	139.993
75.0	86.329	87.107	91.773	101.884	116.661
77.5	69.219	69.997	72.330	80.107	92.551
80.0	53.664	53.664	54.442	59.886	67.663
82.5	38.109	37.332	38.887	41.220	45.109
85.0	23.332	23.332	23.332	24.110	26.443
87.5	9.333	9.333	8.555	9.333	9.333
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	435.02	N.A.	18.60
0-30	865.88	N.A.	37.10
0-40	1317.31	N.A.	56.40
0-60	2007.28	N.A.	86.00
0-80	2306.53	N.A.	98.80
0-90	2334.11	N.A.	100.00
10-90	2216.02	N.A.	94.90
20-40	882.29	N.A.	37.80
20-50	1274.3	N.A.	54.60
40-70	887.11	N.A.	38.00
60-80	299.25	N.A.	12.80
70-80	102.11	N.A.	4.40
80-90	27.58	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	2334.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.09
10-20	316.93
20-30	430.86
30-40	451.43
40-50	392.01
50-60	297.96
60-70	197.14
70-80	102.11
80-90	27.58
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

IES INDOOR REPORT

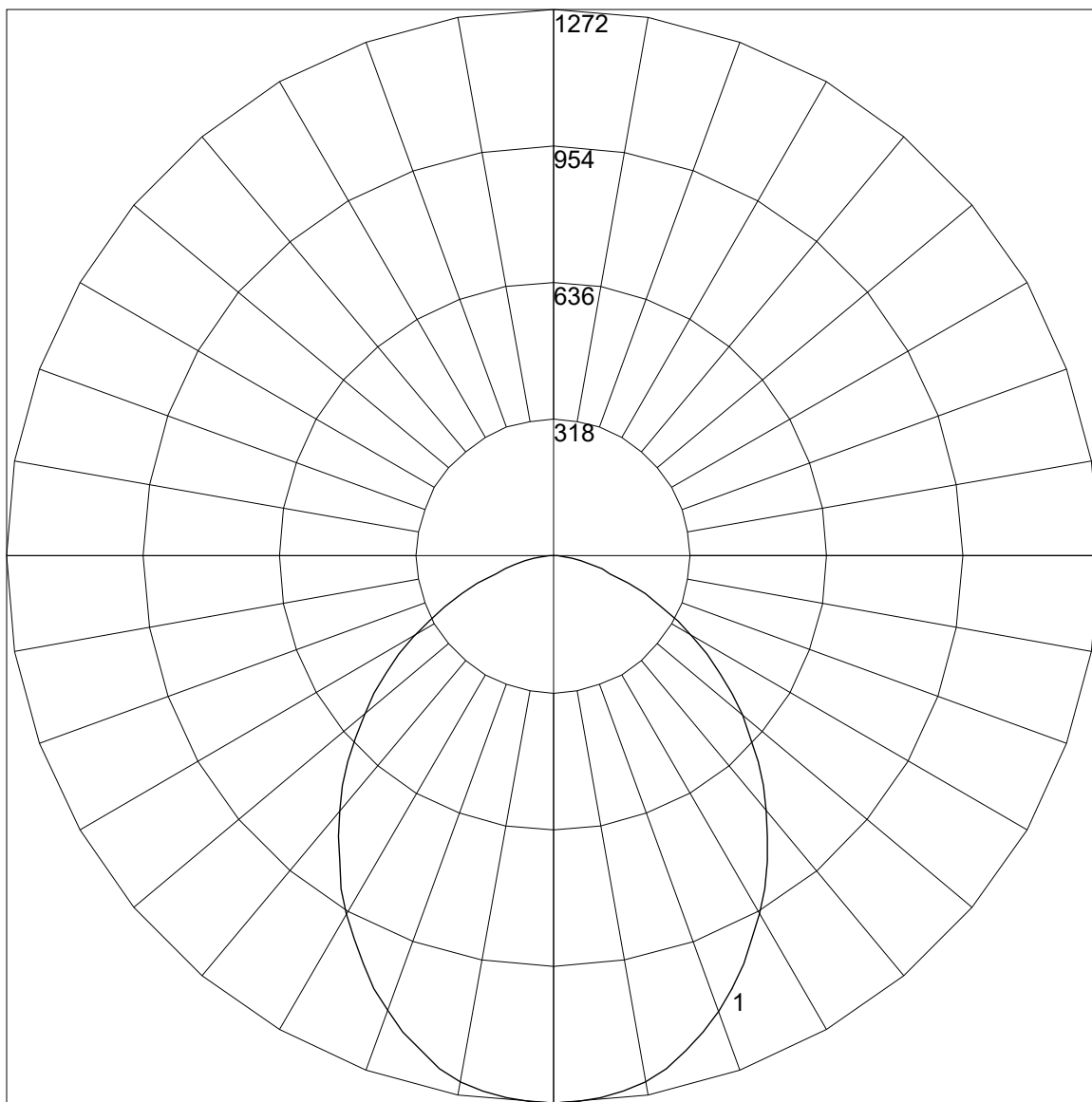
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	46	42	40
8	65	52	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	58	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31

POLAR GRAPH



Maximum Candela = 1272.384 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)