

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-WL-D-4FT-V-835-F-ITL90390.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90390
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[ISSUEDATE]04/13/18
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-WL-D-4ft-V-835-F
[LUMINAIRE]EXTRUDED WHITE PAINTED METAL HOUSING WITH FABRICATED WHITE PAINTED
[MORE]FLAT METAL END CAPS: 3-PIECE FORMED WHITE PAINTED METAL REFLECTOR/CIRCUIT
[MORE]BOARD MOUNT, 3 WHITE CIRCUIT BOARDS WITH A TOTAL OF 160 LEDS, EXTRUDED
[MORE]TRANSLUCENT WHITE FROSTED PLASTIC DIFFUSER. DIFFUSER FROSTED BOTH SIDES.
[LAMP]ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP
[MORE]POSITION.
[INPUT_ELECTRICAL]120.0 VOLTS, 36.9 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 37.5 WATTS
[MOUNTING]SUSPENDED
[LEDDRIVER]OSRAM OT50W/PRG1400C/UNV/DIM/L, DRIVER HAS MULTIPLE LEADS,
[MORE]ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST,
[MORE]CLIENT STATES DRIVER PROGRAMMED FOR 700mA OUTPUT.
[NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT
[MORE]VOLTAGE (277VAC, 60Hz) TO THE DRIVER.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]TEST DISTANCE = 35.0 FEET
[ABSOLUTE]LUMENS]3456

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3456
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	37.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.88 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10223	10097	9947
55	9739	9599	9398
65	9036	8868	8699
75	7754	7652	7686
85	5298	5604	5808

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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	1256	1256	1256	1256	1256
2.5	1254	1254	1254	1254	1254
5.0	1250	1250	1250	1249	1249
7.5	1242	1241	1241	1240	1240
10.0	1233	1229	1231	1230	1228
12.5	1220	1213	1217	1216	1213
15.0	1203	1195	1199	1199	1195
17.5	1185	1174	1180	1178	1174
20.0	1162	1150	1156	1154	1150
22.5	1136	1123	1131	1127	1123
25.0	1107	1095	1103	1098	1094
27.5	1079	1066	1073	1068	1064
30.0	1046	1034	1039	1034	1030
32.5	1012	999	1005	998	994
35.0	976	964	968	960	957
37.5	937	926	929	922	917
40.0	898	887	888	882	877
42.5	857	847	846	840	835
45.0	814	804	804	797	792
47.5	770	761	760	752	748
50.0	725	716	714	706	702
52.5	676	670	669	659	656
55.0	629	622	620	612	607
57.5	581	573	572	565	560
60.0	532	524	522	516	512
62.5	482	476	472	467	463
65.0	430	426	422	417	414
67.5	379	376	372	367	365
70.0	328	323	321	318	317
72.5	276	274	272	269	269
75.0	226	225	223	222	224
77.5	177	177	176	177	178
80.0	132	132	132	133	135
82.5	88	90	91	92	94
85.0	52	54	55	56	57
87.5	24	24	23	23	23
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	456.53	N.A.	13.20
0-30	963.11	N.A.	27.90
0-40	1566.4	N.A.	45.30
0-60	2737.43	N.A.	79.20
0-80	3391.8	N.A.	98.10
0-90	3455.88	N.A.	100.00
10-90	3337.24	N.A.	96.60
20-40	1109.87	N.A.	32.10
20-50	1728.36	N.A.	50.00
40-70	1588.27	N.A.	46.00
60-80	654.37	N.A.	18.90
70-80	237.13	N.A.	6.90
80-90	64.08	N.A.	1.90
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	3455.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.63
10-20	337.90
20-30	506.58
30-40	603.28
40-50	618.50
50-60	552.54
60-70	417.23
70-80	237.13
80-90	64.08
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

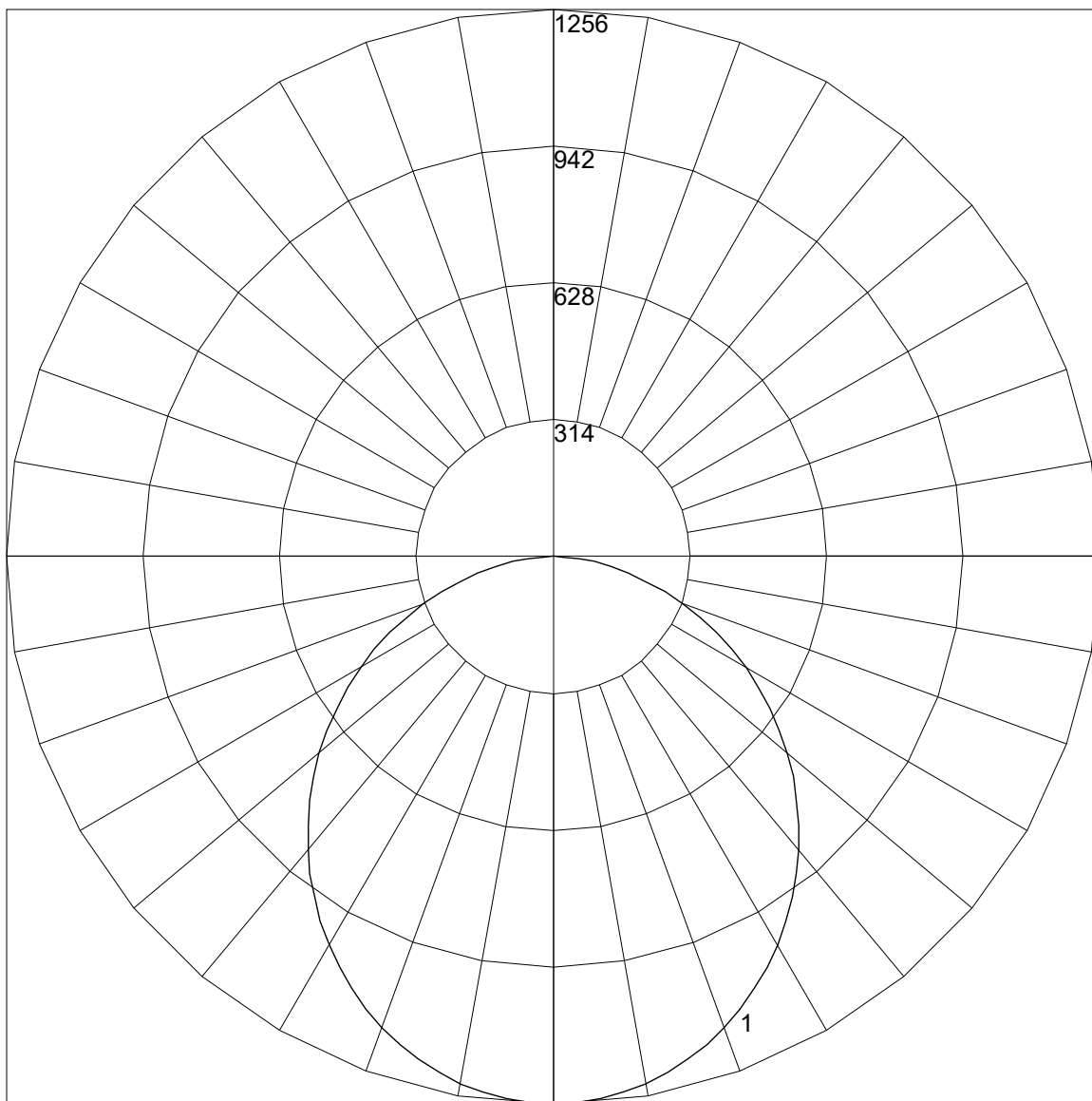
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	78	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	31	26	24

POLAR GRAPH



Maximum Candela = 1256 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)