

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P834489

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1HI-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834489
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-1HI-40-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

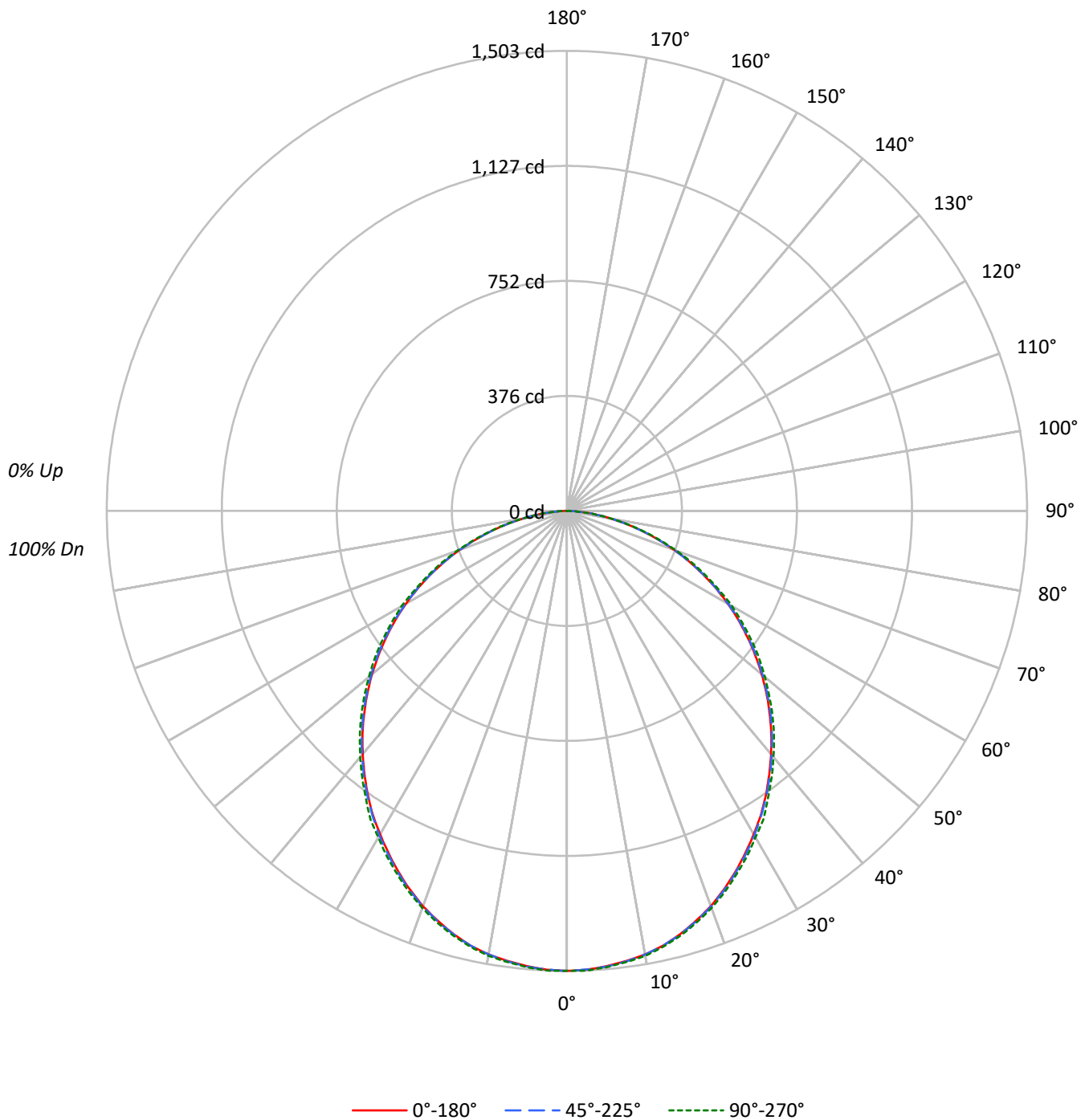
Lumens per Lamp: N/A
Luminaire Lumens: 4060.5 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
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	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4044	4044	4044
5°	4033	4036	4042
10°	4020	4021	4033
15°	3987	3990	4001
20°	3935	3940	3954
25°	3864	3873	3891
30°	3791	3804	3827
35°	3722	3732	3761
40°	3644	3656	3688
45°	3564	3579	3616
50°	3478	3493	3534
55°	3379	3395	3451
60°	3267	3280	3354
65°	3124	3134	3193
70°	2932	2935	2998
75°	2666	2655	2717
80°	2290	2281	2318
85°	1778	1748	1757

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	3.5
10°-20°	403.9	9.9
20°-30°	601.3	14.8
30°-40°	711.1	17.5
40°-50°	726.0	17.9
50°-60°	647.9	16.0
60°-70°	488.0	12.0
70°-80°	272.1	6.7
80°-90°	68.2	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1147.2	28.3
0°-40°	1858.4	45.8
0°-60°	3232.2	79.6
0°-90°	4060.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4060.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1503	1503	1503	1503	1503	
5°	1493	1496	1494	1495	1496	142
15°	1431	1433	1432	1433	1436	403
25°	1301	1303	1304	1308	1310	600
35°	1133	1132	1136	1140	1145	709
45°	936	936	940	945	950	722
55°	720	719	724	729	736	644
65°	491	489	492	496	502	485
75°	256	254	255	257	261	272
85°	58	56	57	56	57	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1502.7	1502.7	1502.7	1502.7	1502.7
2.5°	1500.2	1502.7	1499.6	1500.2	1503.0
5°	1493.1	1495.9	1494.3	1494.6	1496.2
7.5°	1483.1	1486.8	1484.7	1485.3	1486.8
10°	1471.3	1474.1	1471.6	1473.1	1475.9
12.5°	1454.5	1455.7	1454.5	1455.1	1458.2
15°	1431.1	1432.7	1432.1	1433.3	1436.1
17.5°	1403.8	1405.6	1405.3	1407.8	1410.0
20°	1374.2	1374.5	1375.8	1378.3	1380.7
22.5°	1339.4	1340.3	1341.5	1345.0	1347.5
25°	1301.4	1303.0	1304.5	1307.9	1310.4
27.5°	1261.3	1262.8	1265.0	1268.7	1272.8
30°	1220.2	1220.2	1224.3	1228.0	1231.7
32.5°	1178.8	1177.3	1181.0	1185.7	1194.7
35°	1133.1	1131.9	1135.9	1140.3	1144.9
37.5°	1085.5	1084.6	1089.2	1093.9	1098.3
40°	1037.3	1036.0	1040.7	1045.4	1050.0
42.5°	987.8	987.2	991.5	996.2	1001.2
45°	936.5	936.2	940.5	945.2	950.2
47.5°	884.2	883.6	887.9	892.9	897.3
50°	830.7	830.1	834.4	839.4	844.1
52.5°	775.6	775.6	779.7	784.0	791.2
55°	720.2	719.3	723.7	728.6	735.5
57.5°	664.2	663.0	667.0	672.0	678.2
60°	607.0	605.7	609.5	614.5	623.2
62.5°	549.1	547.3	551.0	555.7	560.9
65°	490.6	488.8	492.2	496.5	501.5
67.5°	431.8	429.7	433.1	436.8	441.5
70°	372.7	370.5	373.0	376.8	381.1
72.5°	313.9	311.7	313.9	315.5	320.8
75°	256.4	254.2	255.4	256.7	261.3
77.5°	200.4	198.2	200.7	201.3	204.1
80°	147.8	145.6	147.2	147.5	149.6
82.5°	99.9	98.0	100.2	98.6	100.5
85°	57.6	56.0	56.6	56.0	56.9
87.5°	22.7	21.5	21.8	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)