

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: P834470

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1STD-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834470
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-LD4-1STD-30-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

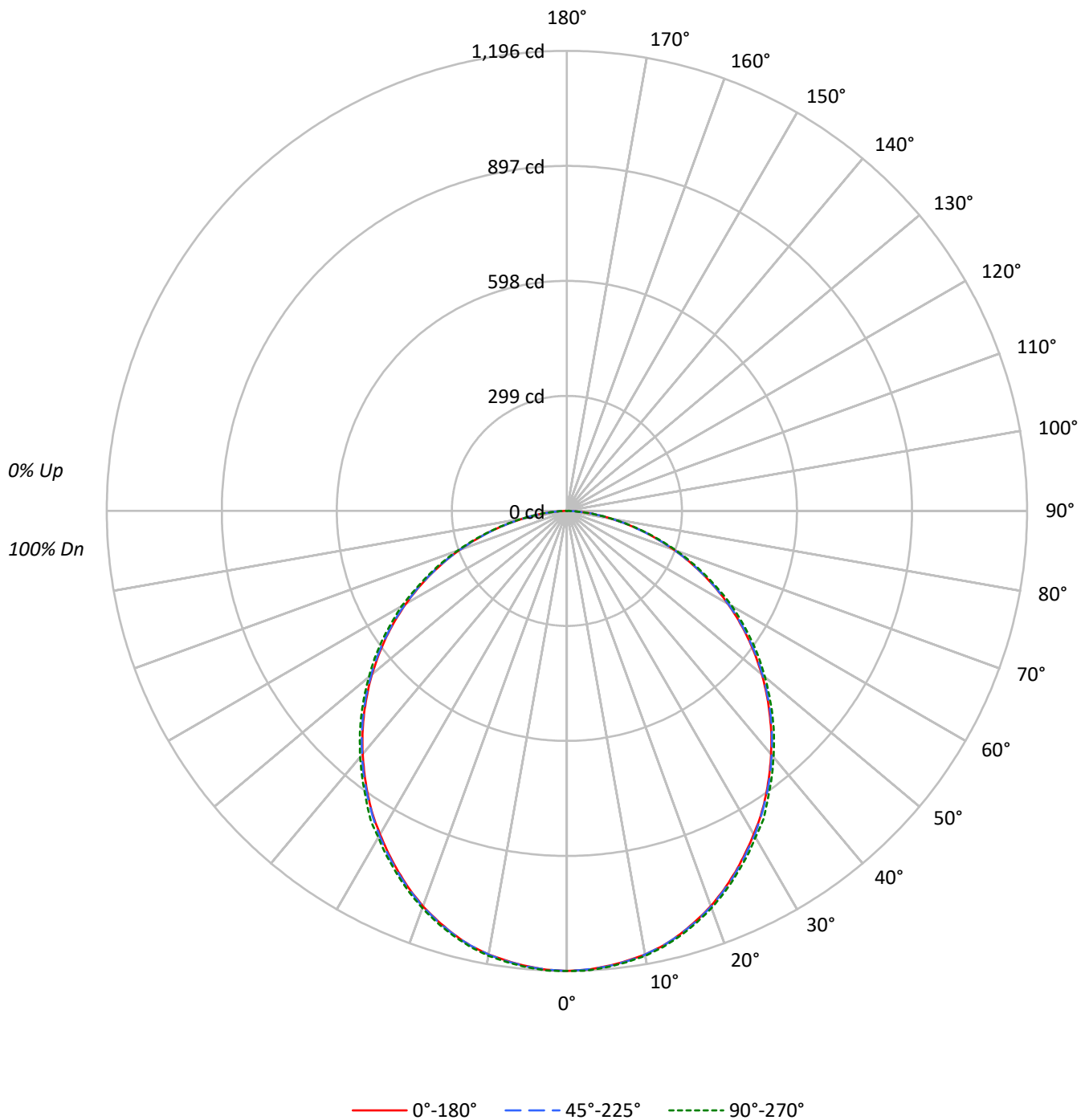
Lumens per Lamp: N/A
Luminaire Lumens: 3231.7 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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

Peachtree City, GA 30269



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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°	3218	3218	3218
5°	3210	3213	3217
10°	3200	3200	3210
15°	3173	3175	3184
20°	3132	3136	3147
25°	3075	3083	3097
30°	3017	3028	3046
35°	2962	2970	2993
40°	2900	2910	2936
45°	2836	2849	2878
50°	2768	2780	2812
55°	2689	2702	2746
60°	2600	2611	2669
65°	2486	2494	2542
70°	2334	2336	2386
75°	2121	2114	2163
80°	1822	1815	1846
85°	1414	1392	1399

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	3.5
10°-20°	321.5	9.9
20°-30°	478.6	14.8
30°-40°	566.0	17.5
40°-50°	577.8	17.9
50°-60°	515.6	16.0
60°-70°	388.4	12.0
70°-80°	216.6	6.7
80°-90°	54.3	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°	913.1	28.3
0°-40°	1479.0	45.8
0°-60°	2572.5	79.6
0°-90°	3231.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3231.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1188	1190	1189	1190	1191	113
15°	1139	1140	1140	1141	1143	321
25°	1036	1037	1038	1041	1043	477
35°	902	901	904	908	911	564
45°	745	745	748	752	756	575
55°	573	572	576	580	585	512
65°	390	389	392	395	399	386
75°	204	202	203	204	208	216
85°	46	45	45	45	45	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1196.0	1196.0	1196.0	1196.0	1196.0
2.5°	1194.0	1196.0	1193.5	1194.0	1196.2
5°	1188.3	1190.5	1189.3	1189.5	1190.8
7.5°	1180.4	1183.4	1181.6	1182.1	1183.4
10°	1171.0	1173.2	1171.2	1172.5	1174.7
12.5°	1157.6	1158.6	1157.6	1158.1	1160.6
15°	1139.0	1140.3	1139.8	1140.8	1143.0
17.5°	1117.2	1118.7	1118.5	1120.5	1122.2
20°	1093.7	1094.0	1095.0	1096.9	1098.9
22.5°	1066.0	1066.7	1067.7	1070.4	1072.4
25°	1035.8	1037.0	1038.2	1041.0	1043.0
27.5°	1003.8	1005.1	1006.8	1009.8	1013.0
30°	971.1	971.1	974.4	977.3	980.3
32.5°	938.2	937.0	939.9	943.7	950.8
35°	901.8	900.8	904.0	907.5	911.2
37.5°	863.9	863.2	866.9	870.6	874.1
40°	825.5	824.6	828.3	832.0	835.7
42.5°	786.2	785.7	789.1	792.9	796.8
45°	745.3	745.1	748.5	752.3	756.2
47.5°	703.7	703.2	706.7	710.7	714.1
50°	661.1	660.6	664.1	668.1	671.8
52.5°	617.3	617.3	620.5	624.0	629.7
55°	573.2	572.5	576.0	579.9	585.4
57.5°	528.7	527.7	530.9	534.8	539.8
60°	483.1	482.1	485.1	489.0	496.0
62.5°	437.0	435.6	438.5	442.2	446.4
65°	390.5	389.0	391.7	395.2	399.2
67.5°	343.7	342.0	344.7	347.7	351.4
70°	296.6	294.9	296.9	299.9	303.3
72.5°	249.8	248.1	249.8	251.1	255.3
75°	204.0	202.3	203.3	204.3	208.0
77.5°	159.5	157.7	159.7	160.2	162.4
80°	117.6	115.9	117.1	117.4	119.1
82.5°	79.5	78.0	79.7	78.5	80.0
85°	45.8	44.6	45.1	44.6	45.3
87.5°	18.1	17.1	17.3	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)