

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: P835732

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2LO-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835732
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-2LO-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

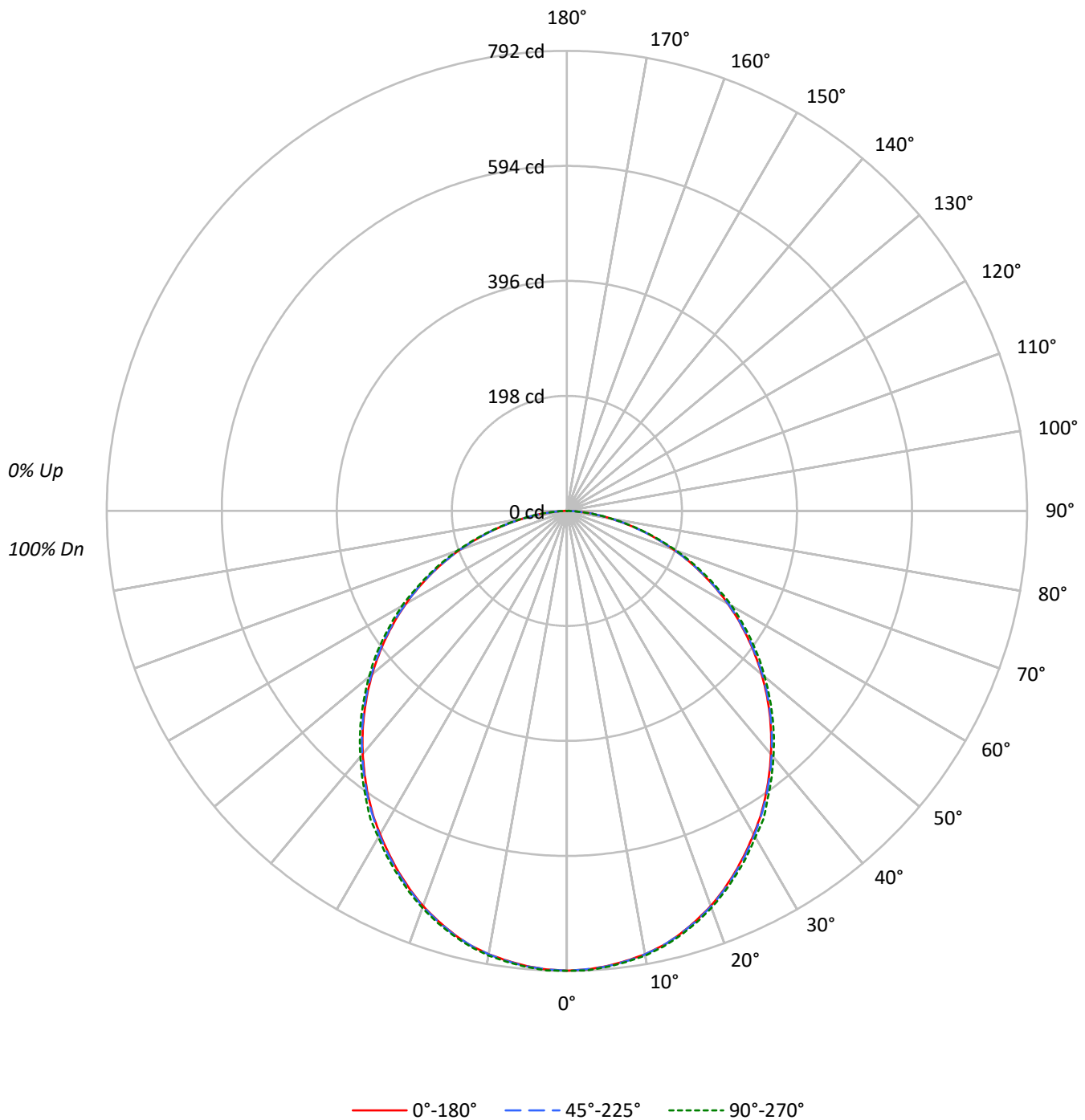
Lumens per Lamp: N/A
Luminaire Lumens: 2139.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	2130	2130	2130
5°	2125	2126	2129
10°	2118	2118	2125
15°	2100	2102	2108
20°	2073	2075	2083
25°	2036	2040	2050
30°	1997	2004	2016
35°	1961	1966	1981
40°	1919	1926	1943
45°	1877	1885	1905
50°	1832	1840	1861
55°	1780	1788	1818
60°	1721	1728	1767
65°	1646	1651	1682
70°	1544	1546	1580
75°	1404	1399	1432
80°	1206	1201	1221
85°	936	920	926

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	3.5
10°-20°	212.8	9.9
20°-30°	316.8	14.8
30°-40°	374.6	17.5
40°-50°	382.4	17.9
50°-60°	341.3	16.0
60°-70°	257.1	12.0
70°-80°	143.4	6.7
80°-90°	35.9	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°	604.3	28.3
0°-40°	979.0	45.8
0°-60°	1702.7	79.6
0°-90°	2139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	792	792	792	792	792	
5°	786	788	787	787	788	75
15°	754	755	754	755	756	212
25°	686	686	687	689	690	316
35°	597	596	598	601	603	373
45°	493	493	495	498	500	381
55°	379	379	381	384	387	339
65°	258	258	259	262	264	256
75°	135	134	135	135	138	143
85°	30	30	30	30	30	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	791.6	791.6	791.6	791.6	791.6
2.5°	790.3	791.6	790.0	790.3	791.8
5°	786.5	788.0	787.2	787.3	788.2
7.5°	781.3	783.2	782.1	782.4	783.2
10°	775.0	776.5	775.2	776.0	777.5
12.5°	766.2	766.9	766.2	766.5	768.2
15°	753.9	754.7	754.4	755.1	756.5
17.5°	739.5	740.5	740.3	741.6	742.8
20°	723.9	724.1	724.7	726.0	727.4
22.5°	705.6	706.0	706.7	708.5	709.8
25°	685.6	686.4	687.2	689.0	690.3
27.5°	664.4	665.2	666.4	668.4	670.5
30°	642.8	642.8	644.9	646.9	648.8
32.5°	621.0	620.2	622.1	624.6	629.3
35°	596.9	596.2	598.4	600.7	603.1
37.5°	571.8	571.3	573.8	576.2	578.5
40°	546.4	545.8	548.2	550.7	553.1
42.5°	520.4	520.0	522.3	524.8	527.4
45°	493.3	493.2	495.4	497.9	500.5
47.5°	465.8	465.5	467.7	470.4	472.7
50°	437.6	437.3	439.6	442.2	444.6
52.5°	408.6	408.6	410.7	413.0	416.8
55°	379.4	378.9	381.2	383.8	387.4
57.5°	349.9	349.3	351.4	354.0	357.3
60°	319.8	319.1	321.1	323.7	328.3
62.5°	289.3	288.3	290.3	292.7	295.5
65°	258.5	257.5	259.3	261.6	264.2
67.5°	227.5	226.3	228.1	230.1	232.6
70°	196.3	195.2	196.5	198.5	200.8
72.5°	165.4	164.2	165.4	166.2	169.0
75°	135.0	133.9	134.6	135.2	137.7
77.5°	105.5	104.4	105.7	106.0	107.5
80°	77.8	76.7	77.5	77.7	78.8
82.5°	52.6	51.6	52.8	52.0	52.9
85°	30.3	29.5	29.8	29.5	30.0
87.5°	12.0	11.3	11.5	10.8	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)