

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: P835698

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2HI-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835698
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-LD4-2HI-20-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

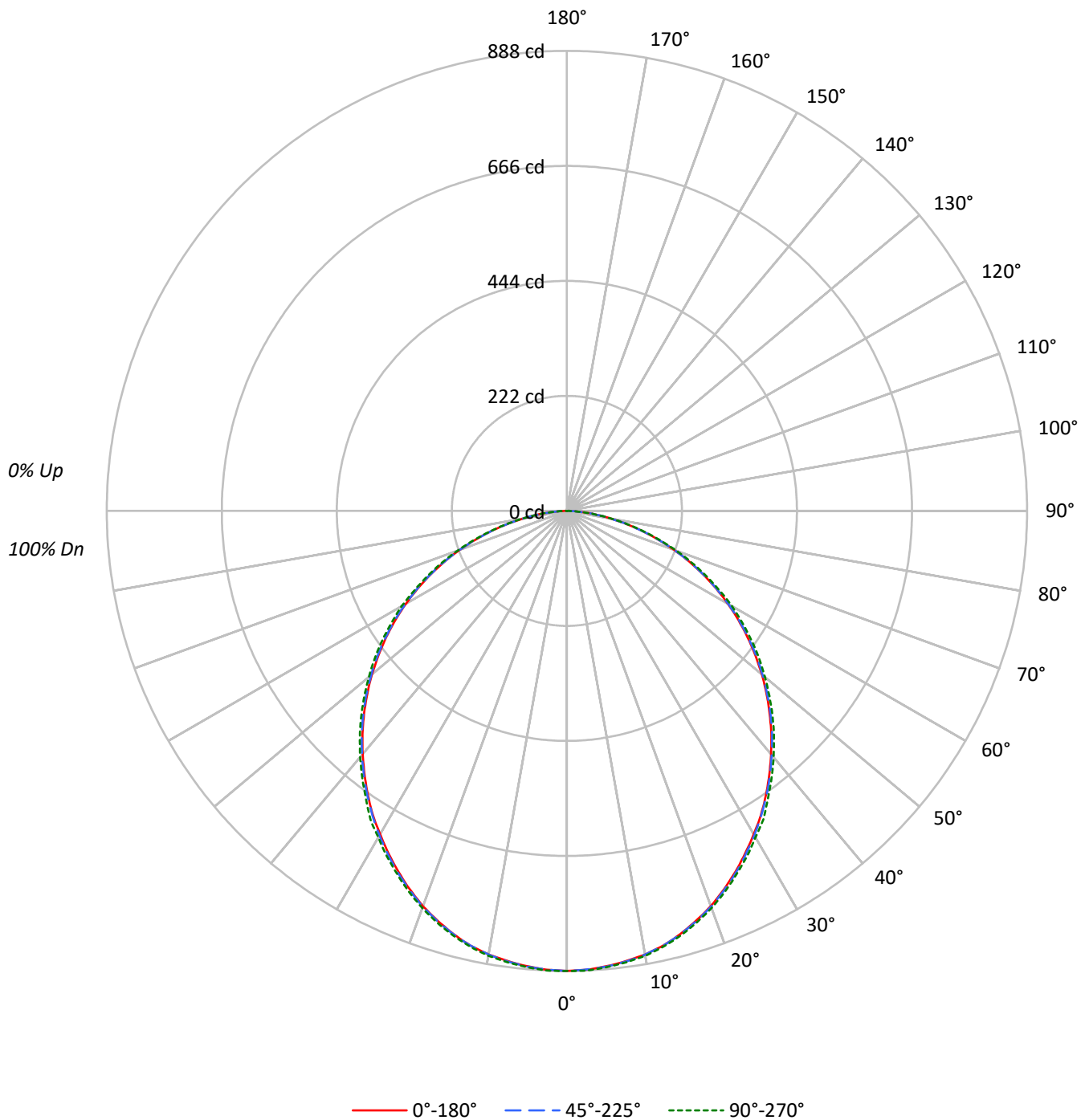
Lumens per Lamp: N/A
Luminaire Lumens: 2399.4 lumens
Efficiency: N/A
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2390	2390	2390
5°	2383	2385	2388
10°	2376	2376	2383
15°	2356	2357	2364
20°	2325	2328	2336
25°	2283	2289	2299
30°	2240	2248	2261
35°	2200	2205	2222
40°	2153	2160	2180
45°	2106	2115	2137
50°	2055	2064	2088
55°	1997	2006	2039
60°	1931	1938	1982
65°	1846	1852	1887
70°	1733	1734	1772
75°	1575	1569	1605
80°	1353	1348	1370
85°	1050	1034	1037

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.5
10°-20°	238.7	9.9
20°-30°	355.3	14.8
30°-40°	420.2	17.5
40°-50°	429.0	17.9
50°-60°	382.8	16.0
60°-70°	288.3	12.0
70°-80°	160.8	6.7
80°-90°	40.3	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°	677.9	28.3
0°-40°	1098.1	45.8
0°-60°	1909.9	79.6
0°-90°	2399.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2399.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	882	884	883	883	884	84
15°	846	847	846	847	849	238
25°	769	770	771	773	774	354
35°	670	669	671	674	676	419
45°	553	553	556	558	562	427
55°	426	425	428	431	435	380
65°	290	289	291	293	296	287
75°	152	150	151	152	154	161
85°	34	33	34	33	34	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.0	888.0	888.0	888.0	888.0
2.5°	886.5	888.0	886.1	886.5	888.1
5°	882.3	883.9	883.0	883.2	884.1
7.5°	876.4	878.6	877.3	877.7	878.6
10°	869.4	871.0	869.6	870.5	872.1
12.5°	859.5	860.2	859.5	859.8	861.7
15°	845.7	846.6	846.2	847.0	848.6
17.5°	829.5	830.6	830.4	831.9	833.2
20°	812.0	812.2	813.0	814.4	815.9
22.5°	791.4	792.0	792.7	794.8	796.2
25°	769.0	769.9	770.9	772.9	774.3
27.5°	745.3	746.2	747.5	749.7	752.1
30°	721.0	721.0	723.4	725.6	727.8
32.5°	696.6	695.7	697.9	700.6	706.0
35°	669.6	668.8	671.2	673.8	676.5
37.5°	641.4	640.9	643.6	646.4	649.0
40°	612.9	612.2	615.0	617.7	620.5
42.5°	583.7	583.3	585.9	588.7	591.6
45°	553.4	553.2	555.8	558.5	561.5
47.5°	522.5	522.1	524.7	527.6	530.2
50°	490.9	490.5	493.1	496.0	498.8
52.5°	458.3	458.3	460.7	463.3	467.5
55°	425.6	425.0	427.6	430.6	434.6
57.5°	392.5	391.8	394.2	397.1	400.8
60°	358.7	357.9	360.1	363.1	368.2
62.5°	324.5	323.4	325.6	328.3	331.5
65°	289.9	288.8	290.8	293.4	296.4
67.5°	255.2	253.9	255.9	258.1	260.9
70°	220.2	219.0	220.4	222.6	225.2
72.5°	185.5	184.2	185.5	186.4	189.5
75°	151.5	150.2	150.9	151.7	154.4
77.5°	118.4	117.1	118.6	118.9	120.6
80°	87.3	86.0	87.0	87.1	88.4
82.5°	59.0	57.9	59.2	58.3	59.4
85°	34.0	33.1	33.5	33.1	33.6
87.5°	13.4	12.7	12.9	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)