

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: P835611

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3HI-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835611
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-LD4-3HI-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

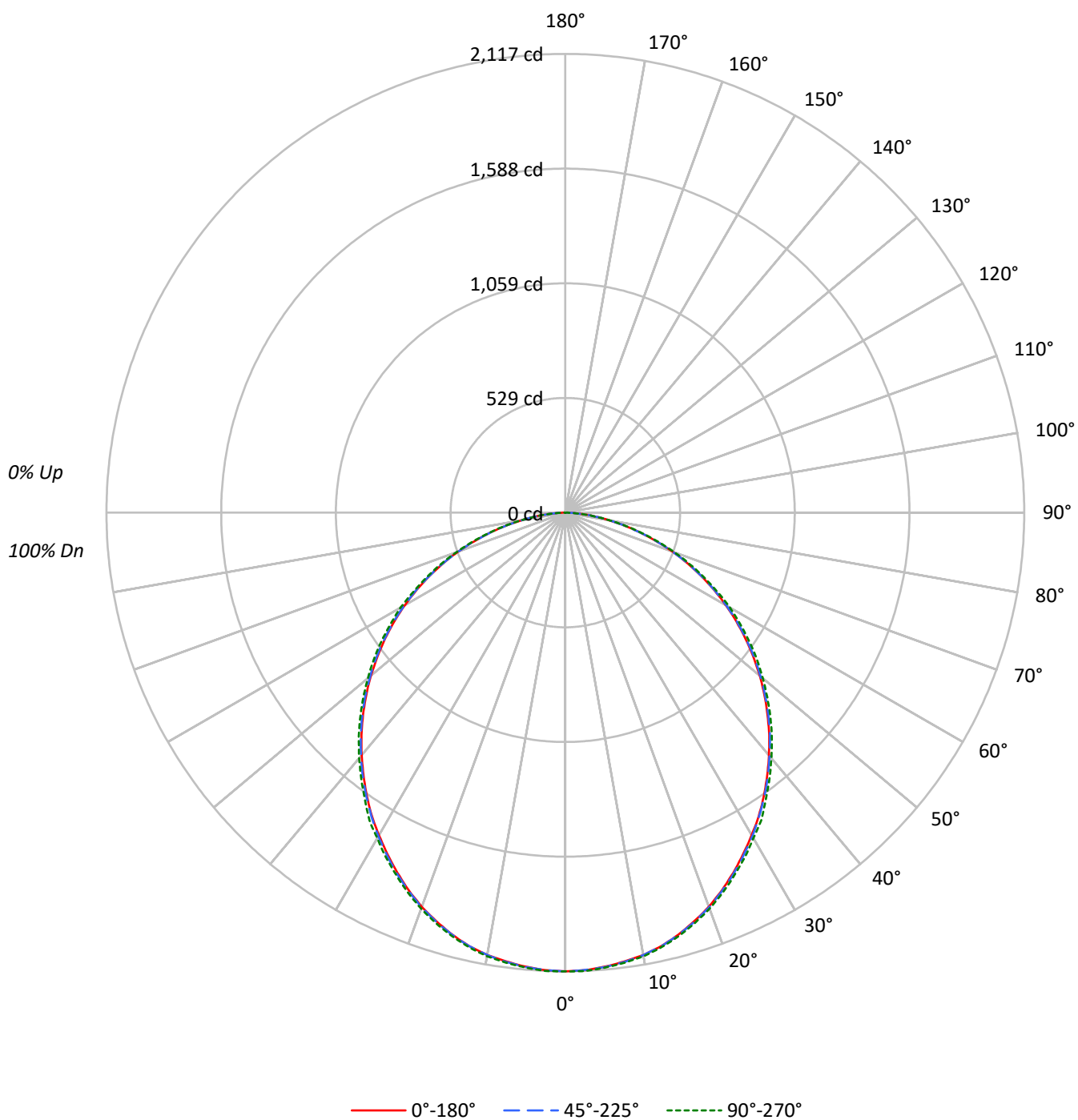
Lumens per Lamp: N/A
Luminaire Lumens: 5720.3 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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				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
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°	5697	5697	5697
5°	5682	5686	5694
10°	5664	5665	5682
15°	5617	5621	5636
20°	5544	5550	5570
25°	5444	5457	5481
30°	5341	5359	5392
35°	5244	5257	5299
40°	5133	5150	5196
45°	5021	5042	5094
50°	4899	4921	4978
55°	4760	4783	4861
60°	4602	4621	4725
65°	4401	4415	4499
70°	4131	4135	4224
75°	3755	3741	3828
80°	3226	3212	3267
85°	2504	2464	2476

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	3.5
10°-20°	569.0	9.9
20°-30°	847.1	14.8
30°-40°	1001.8	17.5
40°-50°	1022.7	17.9
50°-60°	912.7	16.0
60°-70°	687.4	12.0
70°-80°	383.4	6.7
80°-90°	96.0	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°	1616.2	28.3
0°-40°	2618.0	45.8
0°-60°	4553.4	79.6
0°-90°	5720.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5720.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2117	2117	2117	2117	2117	
5°	2103	2107	2105	2106	2108	200
15°	2016	2018	2018	2019	2023	568
25°	1833	1836	1838	1843	1846	845
35°	1596	1594	1600	1606	1613	998
45°	1319	1319	1325	1332	1338	1018
55°	1015	1013	1020	1026	1036	907
65°	691	689	693	700	706	684
75°	361	358	360	362	368	383
85°	81	79	80	79	80	97
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2117.0	2117.0	2117.0	2117.0	2117.0
2.5°	2113.4	2117.0	2112.6	2113.4	2117.4
5°	2103.4	2107.3	2105.1	2105.6	2107.8
7.5°	2089.3	2094.6	2091.5	2092.4	2094.6
10°	2072.7	2076.6	2073.1	2075.3	2079.3
12.5°	2049.0	2050.8	2049.0	2049.9	2054.3
15°	2016.1	2018.3	2017.5	2019.2	2023.2
17.5°	1977.6	1980.2	1979.8	1983.3	1986.3
20°	1935.9	1936.4	1938.1	1941.6	1945.1
22.5°	1886.9	1888.2	1889.9	1894.7	1898.2
25°	1833.4	1835.6	1837.8	1842.6	1846.1
27.5°	1776.8	1779.0	1782.1	1787.4	1793.1
30°	1719.0	1719.0	1724.7	1729.9	1735.2
32.5°	1660.7	1658.5	1663.8	1670.3	1683.0
35°	1596.3	1594.5	1600.2	1606.3	1612.9
37.5°	1529.2	1527.9	1534.5	1541.0	1547.2
40°	1461.3	1459.5	1466.1	1472.7	1479.2
42.5°	1391.6	1390.7	1396.8	1403.4	1410.4
45°	1319.3	1318.8	1325.0	1331.5	1338.5
47.5°	1245.6	1244.8	1250.9	1257.9	1264.0
50°	1170.2	1169.4	1175.5	1182.5	1189.1
52.5°	1092.7	1092.7	1098.4	1104.5	1114.6
55°	1014.6	1013.3	1019.5	1026.5	1036.1
57.5°	935.8	934.0	939.7	946.7	955.5
60°	855.1	853.4	858.6	865.6	877.9
62.5°	773.6	771.0	776.2	782.8	790.2
65°	691.2	688.6	693.4	699.5	706.5
67.5°	608.4	605.3	610.1	615.4	621.9
70°	525.1	522.0	525.5	530.8	536.9
72.5°	442.2	439.2	442.2	444.4	451.9
75°	361.2	358.1	359.8	361.6	368.2
77.5°	282.3	279.2	282.7	283.6	287.5
80°	208.2	205.1	207.3	207.8	210.8
82.5°	140.7	138.1	141.1	138.9	141.6
85°	81.1	78.9	79.8	78.9	80.2
87.5°	32.0	30.2	30.7	28.9	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)