

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: P486013

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5STD-27-120-EDD**

Issue Date: 3/1/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P486013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35355)
Test Lab: INNOVATION CENTER
Issue Date: 3/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-A125-LD4-5STD-27-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

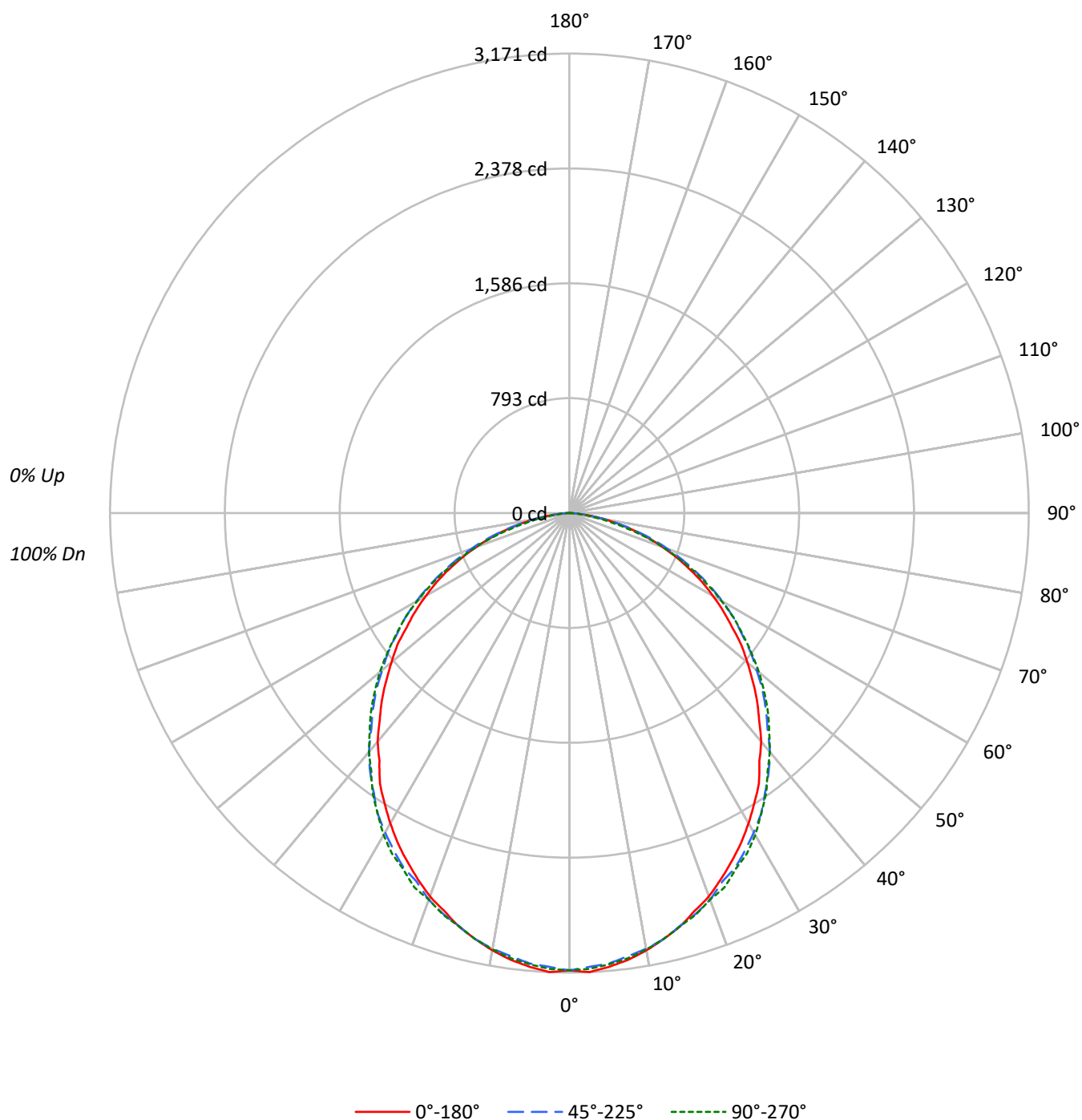
Lumens per Lamp: N/A
Luminaire Lumens: 8104.7 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
Input Voltage (V): NR
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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	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			100
1	109	105	101	97	107	102	99	95		98	95	92			94	92	90			85
2	100	92	85	79	97	90	84	79		86	81	77			83	79	75			71
3	91	81	73	66	89	79	72	66		76	70	65			73	68	64			60
4	83	72	63	57	81	70	62	56		68	61	55			66	59	55			52
5	77	64	55	49	75	63	55	49		61	54	48			59	53	48			45
6	71	58	49	43	69	57	49	43		55	48	42			53	47	42			39
7	66	53	44	38	64	52	44	38		50	43	37			49	42	37			35
8	61	48	40	34	60	47	39	34		46	39	34			45	38	33			31
9	57	44	36	31	56	44	36	30		42	35	30			41	35	30			28
10	54	41	33	28	53	40	33	28		39	32	28			38	32	27			26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8491	8491	8491
5°	8491	8430	8444
10°	8372	8344	8353
15°	8228	8218	8223
20°	8063	8132	8127
25°	7873	8027	8052
30°	7682	7907	7971
35°	7492	7736	7770
40°	7236	7563	7557
45°	6972	7301	7373
50°	6710	7056	7150
55°	6427	6807	6847
60°	6156	6564	6518
65°	5833	6162	6041
70°	5375	5660	5402
75°	4754	4950	4323
80°	3823	3877	3020
85°	2504	2396	1757



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.6	3.7
10°-20°	834.0	10.3
20°-30°	1241.6	15.3
30°-40°	1461.4	18.0
40°-50°	1465.3	18.1
50°-60°	1284.9	15.9
60°-70°	939.6	11.6
70°-80°	484.2	6.0
80°-90°	97.2	1.2
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°	2372.1	29.3
0°-40°	3833.6	47.3
0°-60°	6583.8	81.2
0°-90°	8104.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8104.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3155	3155	3155	3155	3155	
5°	3143	3123	3121	3142	3126	298
15°	2954	2959	2950	2969	2952	831
25°	2652	2664	2703	2741	2712	1221
35°	2281	2291	2355	2381	2365	1420
45°	1832	1841	1918	1942	1937	1412
55°	1370	1401	1451	1472	1460	1230
65°	916	937	968	964	949	906
75°	457	461	476	443	416	484
85°	81	79	78	62	57	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3155.3	3155.3	3155.3	3155.3	3155.3
2.5°	3170.9	3155.3	3134.6	3151.9	3148.4
5°	3143.3	3122.6	3120.8	3141.5	3126.0
7.5°	3108.8	3105.3	3084.6	3107.0	3098.4
10°	3063.9	3060.5	3053.6	3069.1	3057.0
12.5°	3010.4	3007.0	3010.4	3019.1	3010.4
15°	2953.5	2958.7	2950.0	2969.0	2951.8
17.5°	2877.6	2882.8	2900.0	2906.9	2905.2
20°	2815.5	2818.9	2839.6	2867.2	2837.9
22.5°	2734.4	2743.0	2753.4	2803.4	2796.5
25°	2651.6	2663.7	2703.3	2741.3	2712.0
27.5°	2565.3	2577.4	2625.7	2653.3	2649.9
30°	2472.2	2484.2	2544.6	2582.6	2565.3
32.5°	2375.6	2396.3	2461.8	2494.6	2461.8
35°	2280.7	2291.0	2354.9	2380.7	2365.2
37.5°	2154.7	2194.4	2258.3	2275.5	2247.9
40°	2059.9	2061.6	2153.0	2153.0	2151.3
42.5°	1937.4	1965.0	2025.4	2058.1	2040.9
45°	1832.1	1840.8	1918.4	1942.5	1937.4
47.5°	1716.5	1751.1	1808.0	1835.6	1821.8
50°	1602.7	1626.8	1685.5	1721.7	1707.9
52.5°	1497.5	1516.4	1576.8	1597.5	1583.7
55°	1369.8	1400.8	1450.9	1471.6	1459.5
57.5°	1259.4	1281.8	1343.9	1350.8	1343.9
60°	1143.8	1169.7	1219.7	1224.9	1211.1
62.5°	1033.4	1050.6	1095.5	1097.2	1081.7
65°	916.1	936.8	967.8	964.4	948.8
67.5°	800.5	814.3	843.6	831.5	814.3
70°	683.2	695.2	719.4	702.1	686.6
72.5°	569.3	577.9	598.6	572.8	553.8
75°	457.2	460.6	476.1	443.4	415.8
77.5°	346.8	350.2	358.8	326.1	295.0
80°	246.7	246.7	250.2	215.6	194.9
82.5°	155.3	155.3	153.5	127.7	115.6
85°	81.1	79.4	77.6	62.1	56.9
87.5°	29.3	29.3	24.2	22.4	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)