

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: P485919

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3HI-30-120-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: P485919
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-LD4-3HI-30-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

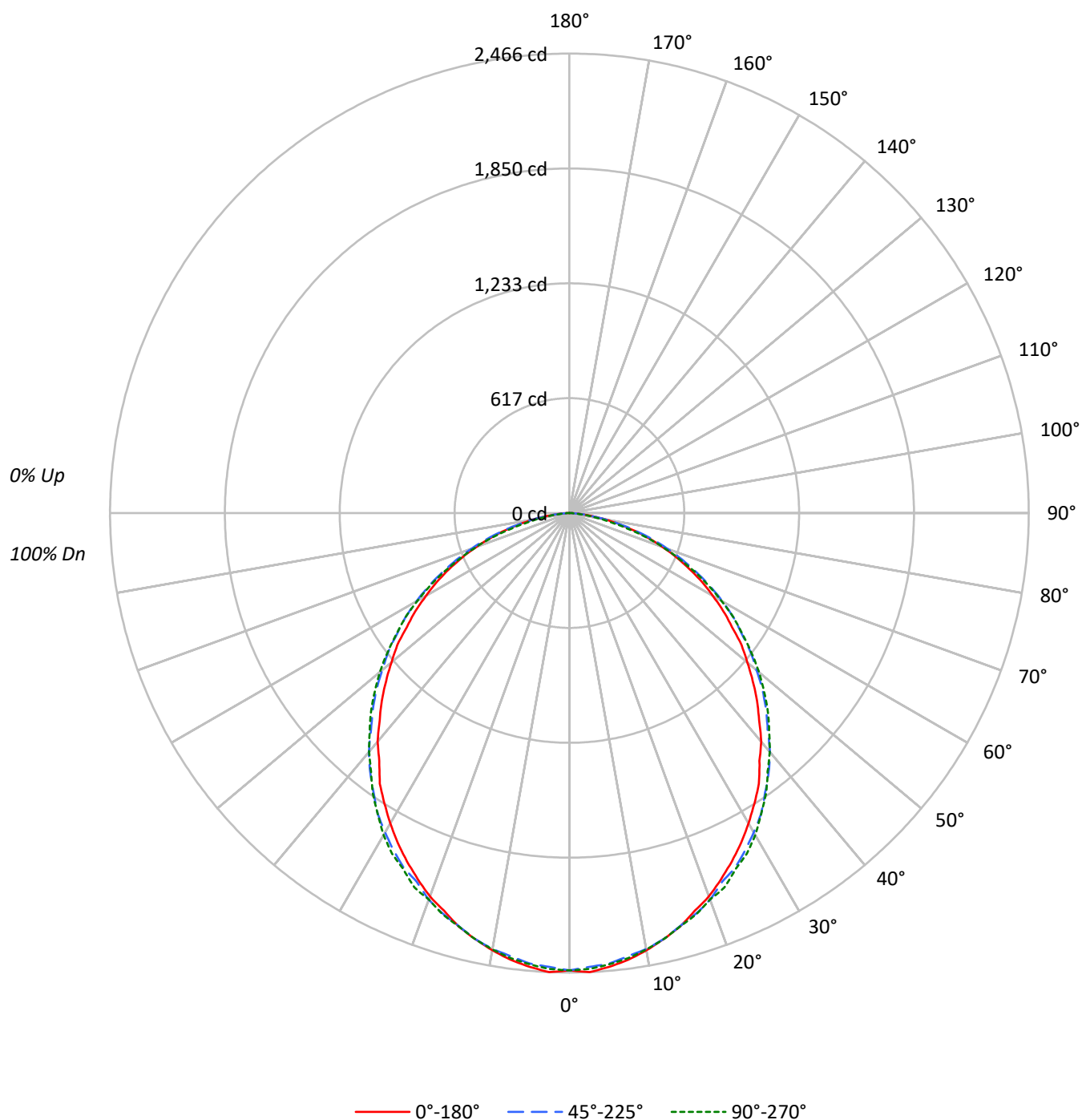
Lumens per Lamp: N/A
Luminaire Lumens: 6303.7 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6604	6604	6604
5°	6604	6557	6568
10°	6512	6490	6497
15°	6400	6392	6396
20°	6271	6325	6321
25°	6124	6243	6263
30°	5975	6150	6200
35°	5827	6017	6043
40°	5628	5883	5878
45°	5423	5678	5735
50°	5218	5488	5561
55°	4998	5294	5326
60°	4788	5106	5070
65°	4537	4793	4699
70°	4181	4402	4201
75°	3697	3850	3362
80°	2974	3016	2349
85°	1948	1865	1368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	3.7
10°-20°	648.6	10.3
20°-30°	965.7	15.3
30°-40°	1136.7	18.0
40°-50°	1139.7	18.1
50°-60°	999.4	15.9
60°-70°	730.8	11.6
70°-80°	376.6	6.0
80°-90°	75.6	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°	1845.0	29.3
0°-40°	2981.7	47.3
0°-60°	5120.8	81.2
0°-90°	6303.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6303.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2454	2454	2454	2454	2454	
5°	2445	2429	2427	2443	2431	231
15°	2297	2301	2294	2309	2296	647
25°	2062	2072	2103	2132	2109	950
35°	1774	1782	1832	1852	1840	1105
45°	1425	1432	1492	1511	1507	1098
55°	1065	1090	1128	1145	1135	956
65°	712	729	753	750	738	705
75°	356	358	370	345	323	377
85°	63	62	60	48	44	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2454.2	2454.2	2454.2	2454.2	2454.2
2.5°	2466.2	2454.2	2438.1	2451.5	2448.8
5°	2444.8	2428.7	2427.3	2443.4	2431.4
7.5°	2417.9	2415.3	2399.2	2416.6	2409.9
10°	2383.1	2380.4	2375.0	2387.1	2377.7
12.5°	2341.5	2338.8	2341.5	2348.2	2341.5
15°	2297.2	2301.2	2294.5	2309.3	2295.8
17.5°	2238.1	2242.2	2255.6	2261.0	2259.6
20°	2189.8	2192.5	2208.6	2230.1	2207.3
22.5°	2126.8	2133.5	2141.5	2180.4	2175.1
25°	2062.4	2071.8	2102.6	2132.1	2109.3
27.5°	1995.3	2004.7	2042.2	2063.7	2061.0
30°	1922.8	1932.2	1979.2	2008.7	1995.3
32.5°	1847.7	1863.8	1914.8	1940.3	1914.8
35°	1773.9	1781.9	1831.6	1851.7	1839.6
37.5°	1675.9	1706.8	1756.4	1769.8	1748.4
40°	1602.1	1603.5	1674.6	1674.6	1673.2
42.5°	1506.9	1528.3	1575.3	1600.8	1587.4
45°	1425.0	1431.7	1492.1	1510.9	1506.9
47.5°	1335.1	1361.9	1406.2	1427.7	1417.0
50°	1246.5	1265.3	1310.9	1339.1	1328.4
52.5°	1164.7	1179.5	1226.4	1242.5	1231.8
55°	1065.4	1089.6	1128.5	1144.6	1135.2
57.5°	979.5	997.0	1045.3	1050.6	1045.3
60°	889.6	909.7	948.7	952.7	942.0
62.5°	803.7	817.2	852.0	853.4	841.3
65°	712.5	728.6	752.8	750.1	738.0
67.5°	622.6	633.3	656.1	646.8	633.3
70°	531.4	540.7	559.5	546.1	534.0
72.5°	442.8	449.5	465.6	445.5	430.7
75°	355.6	358.3	370.3	344.8	323.4
77.5°	269.7	272.4	279.1	253.6	229.4
80°	191.9	191.9	194.6	167.7	151.6
82.5°	120.8	120.8	119.4	99.3	89.9
85°	63.1	61.7	60.4	48.3	44.3
87.5°	22.8	22.8	18.8	17.4	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)