

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: P486035

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6LO-20-120-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: P486035
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-LD4-6LO-20-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

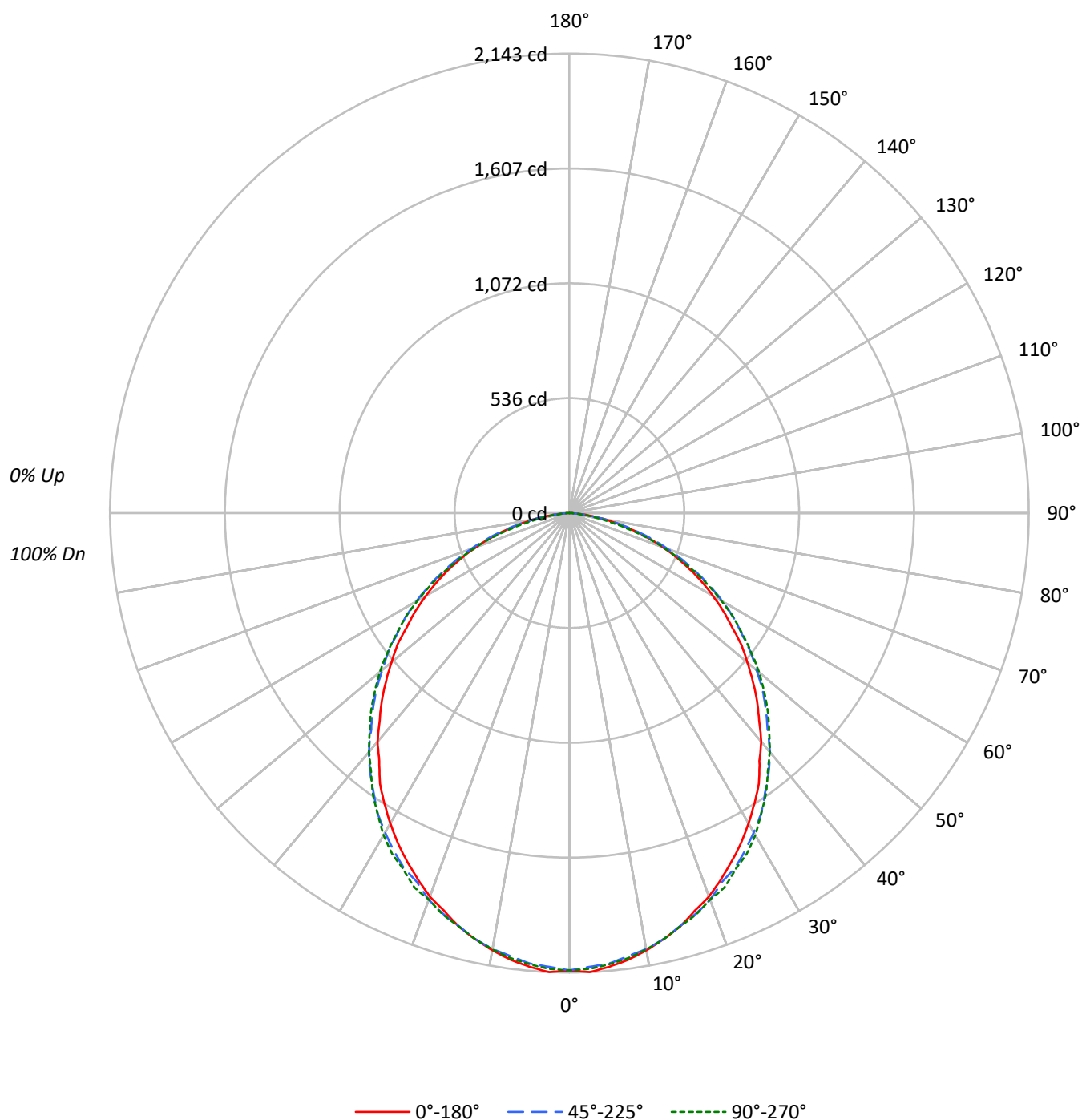
Lumens per Lamp: N/A
Luminaire Lumens: 5478.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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				10			
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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5739	5739	5739
5°	5739	5698	5707
10°	5659	5640	5646
15°	5562	5555	5558
20°	5450	5496	5493
25°	5321	5425	5442
30°	5192	5344	5388
35°	5064	5229	5252
40°	4891	5112	5108
45°	4712	4934	4983
50°	4535	4769	4833
55°	4343	4601	4628
60°	4161	4437	4406
65°	3943	4166	4083
70°	3633	3825	3651
75°	3213	3346	2922
80°	2583	2620	2042
85°	1692	1621	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	3.7
10°-20°	563.7	10.3
20°-30°	839.2	15.3
30°-40°	987.8	18.0
40°-50°	990.4	18.1
50°-60°	868.5	15.9
60°-70°	635.1	11.6
70°-80°	327.3	6.0
80°-90°	65.7	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°	1603.3	29.3
0°-40°	2591.1	47.3
0°-60°	4450.0	81.2
0°-90°	5478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2133	2133	2133	2133	2133	
5°	2124	2111	2109	2123	2113	201
15°	1996	2000	1994	2007	1995	562
25°	1792	1800	1827	1853	1833	826
35°	1542	1548	1592	1609	1599	960
45°	1238	1244	1297	1313	1310	954
55°	926	947	981	995	986	831
65°	619	633	654	652	641	612
75°	309	311	322	300	281	327
85°	55	54	52	42	38	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2132.7	2132.7	2132.7	2132.7	2132.7
2.5°	2143.2	2132.7	2118.7	2130.4	2128.0
5°	2124.5	2110.6	2109.4	2123.4	2112.9
7.5°	2101.2	2098.9	2084.9	2100.1	2094.2
10°	2070.9	2068.6	2063.9	2074.4	2066.2
12.5°	2034.8	2032.4	2034.8	2040.6	2034.8
15°	1996.3	1999.8	1993.9	2006.8	1995.1
17.5°	1945.0	1948.5	1960.1	1964.8	1963.6
20°	1903.0	1905.3	1919.3	1938.0	1918.2
22.5°	1848.2	1854.0	1861.0	1894.8	1890.2
25°	1792.2	1800.4	1827.2	1852.9	1833.0
27.5°	1733.9	1742.1	1774.7	1793.4	1791.1
30°	1671.0	1679.1	1719.9	1745.6	1733.9
32.5°	1605.7	1619.6	1664.0	1686.1	1664.0
35°	1541.5	1548.5	1591.7	1609.2	1598.7
37.5°	1456.4	1483.2	1526.4	1538.0	1519.4
40°	1392.3	1393.4	1455.2	1455.2	1454.1
42.5°	1309.5	1328.1	1368.9	1391.1	1379.4
45°	1238.3	1244.2	1296.6	1313.0	1309.5
47.5°	1160.2	1183.5	1222.0	1240.7	1231.4
50°	1083.3	1099.6	1139.2	1163.7	1154.4
52.5°	1012.1	1025.0	1065.8	1079.8	1070.4
55°	925.8	946.8	980.6	994.6	986.5
57.5°	851.2	866.4	908.4	913.0	908.4
60°	773.1	790.6	824.4	827.9	818.6
62.5°	698.5	710.1	740.4	741.6	731.1
65°	619.2	633.2	654.2	651.8	641.3
67.5°	541.0	550.4	570.2	562.0	550.4
70°	461.8	469.9	486.2	474.6	464.1
72.5°	384.8	390.6	404.6	387.1	374.3
75°	309.0	311.3	321.8	299.7	281.0
77.5°	234.4	236.7	242.5	220.4	199.4
80°	166.7	166.7	169.1	145.8	131.8
82.5°	104.9	104.9	103.8	86.3	78.1
85°	54.8	53.6	52.5	42.0	38.5
87.5°	19.8	19.8	16.3	15.2	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)