

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: P485945

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3STD-35-120-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: P485945
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-LD4-3STD-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

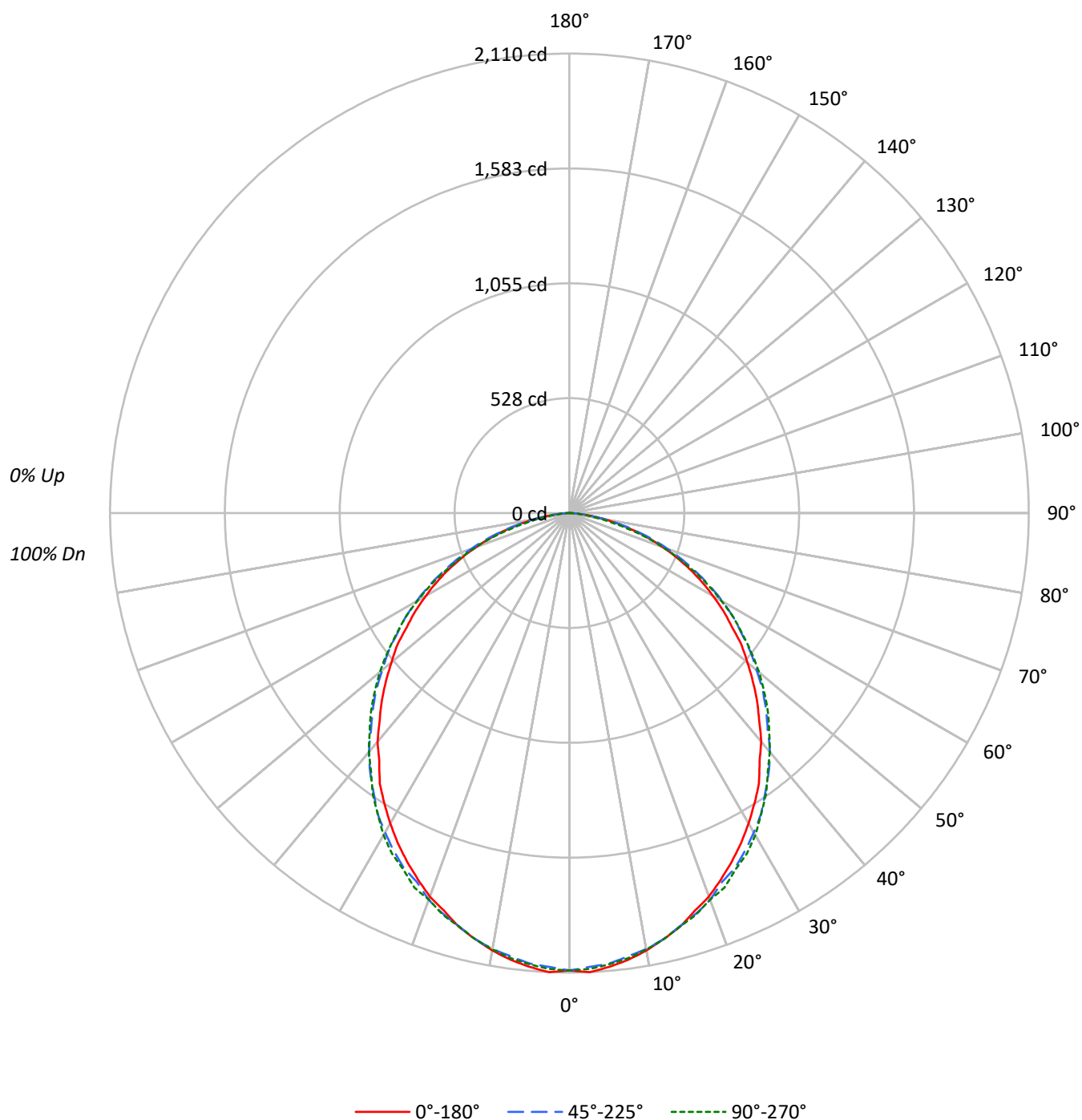
Lumens per Lamp: N/A
Luminaire Lumens: 5394.1 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	5651	5651	5651
5°	5651	5611	5620
10°	5572	5553	5560
15°	5476	5470	5473
20°	5366	5412	5409
25°	5240	5342	5359
30°	5113	5262	5305
35°	4986	5149	5171
40°	4816	5034	5030
45°	4641	4859	4907
50°	4466	4696	4759
55°	4277	4530	4557
60°	4097	4369	4338
65°	3882	4101	4021
70°	3578	3767	3596
75°	3164	3295	2877
80°	2545	2580	2010
85°	1667	1596	1170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	3.7
10°-20°	555.0	10.3
20°-30°	826.3	15.3
30°-40°	972.7	18.0
40°-50°	975.2	18.1
50°-60°	855.2	15.9
60°-70°	625.3	11.6
70°-80°	322.3	6.0
80°-90°	64.7	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°	1578.8	29.3
0°-40°	2551.4	47.3
0°-60°	4381.8	81.2
0°-90°	5394.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5394.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2100	2100	2100	2100	2100	
5°	2092	2078	2077	2091	2080	198
15°	1966	1969	1963	1976	1965	553
25°	1765	1773	1799	1824	1805	813
35°	1518	1525	1567	1584	1574	945
45°	1219	1225	1277	1293	1289	940
55°	912	932	966	979	971	818
65°	610	624	644	642	632	603
75°	304	307	317	295	277	322
85°	54	53	52	41	38	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2100.0	2100.0	2100.0	2100.0	2100.0
2.5°	2110.4	2100.0	2086.3	2097.7	2095.5
5°	2092.0	2078.2	2077.1	2090.9	2080.5
7.5°	2069.0	2066.7	2053.0	2067.9	2062.2
10°	2039.2	2036.9	2032.3	2042.6	2034.6
12.5°	2003.6	2001.3	2003.6	2009.3	2003.6
15°	1965.7	1969.2	1963.4	1976.0	1964.6
17.5°	1915.2	1918.6	1930.1	1934.7	1933.6
20°	1873.9	1876.1	1889.9	1908.3	1888.8
22.5°	1819.9	1825.6	1832.5	1865.8	1861.2
25°	1764.8	1772.8	1799.2	1824.5	1805.0
27.5°	1707.4	1715.4	1747.5	1765.9	1763.6
30°	1645.4	1653.4	1693.6	1718.8	1707.4
32.5°	1581.1	1594.8	1638.5	1660.3	1638.5
35°	1517.9	1524.8	1567.3	1584.5	1574.2
37.5°	1434.1	1460.5	1503.0	1514.5	1496.1
40°	1370.9	1372.1	1432.9	1432.9	1431.8
42.5°	1289.4	1307.8	1348.0	1369.8	1358.3
45°	1219.4	1225.1	1276.8	1292.9	1289.4
47.5°	1142.5	1165.4	1203.3	1221.7	1212.5
50°	1066.7	1082.7	1121.8	1145.9	1136.7
52.5°	996.6	1009.3	1049.4	1063.2	1054.0
55°	911.7	932.3	965.6	979.4	971.4
57.5°	838.2	853.1	894.4	899.0	894.4
60°	761.3	778.5	811.8	815.2	806.0
62.5°	687.8	699.2	729.1	730.3	719.9
65°	609.7	623.5	644.1	641.8	631.5
67.5°	532.8	541.9	561.5	553.4	541.9
70°	454.7	462.7	478.8	467.3	457.0
72.5°	378.9	384.6	398.4	381.2	368.6
75°	304.3	306.6	316.9	295.1	276.7
77.5°	230.8	233.1	238.8	217.0	196.3
80°	164.2	164.2	166.5	143.5	129.7
82.5°	103.3	103.3	102.2	85.0	76.9
85°	54.0	52.8	51.7	41.3	37.9
87.5°	19.5	19.5	16.1	14.9	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)