

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: P485946

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3STD-40-120-EDD-90**

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: P485946
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-40-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

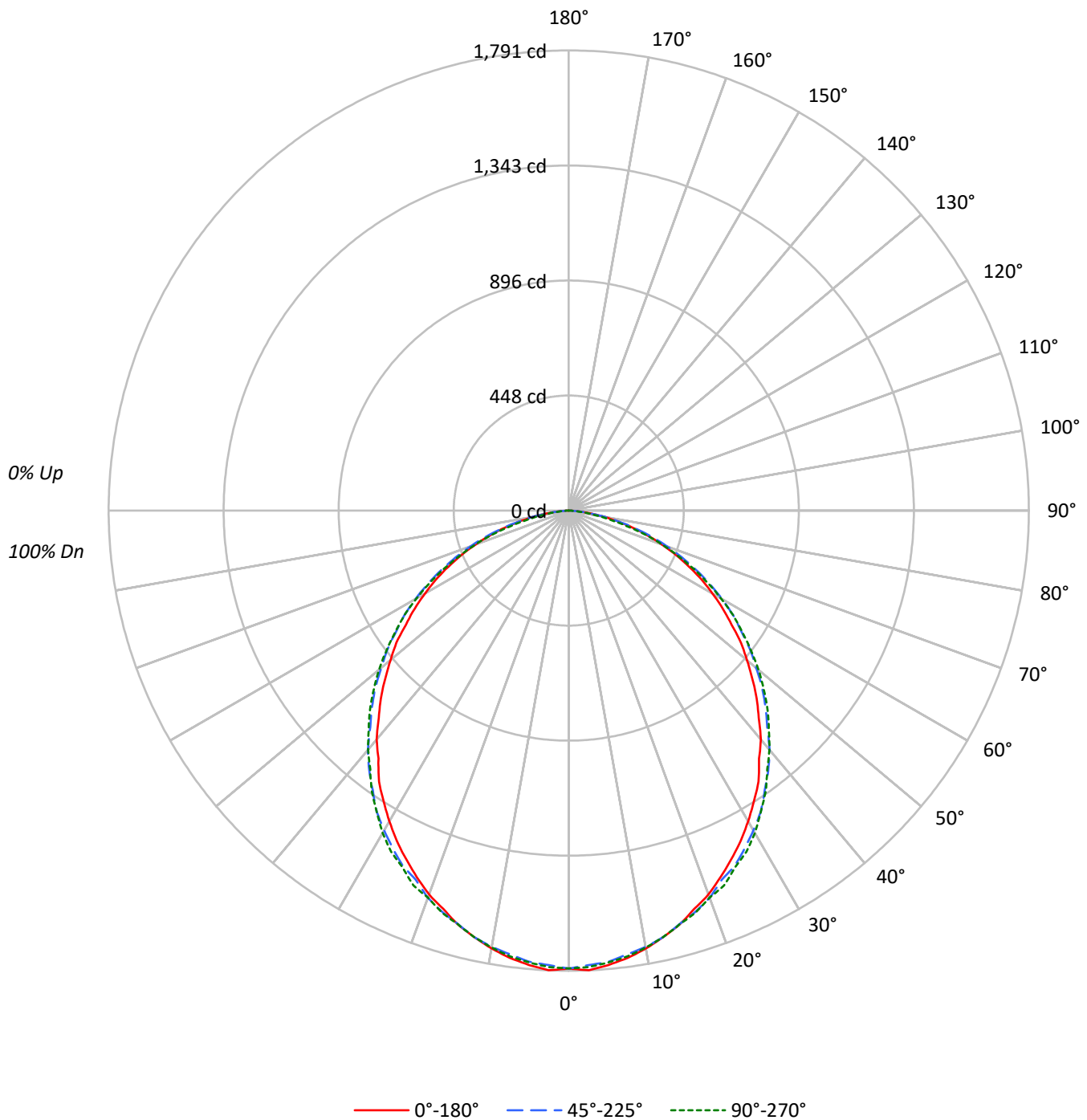
Lumens per Lamp: N/A
Luminaire Lumens: 4577.6 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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				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°	4796	4796	4796
5°	4796	4762	4769
10°	4729	4713	4718
15°	4647	4642	4645
20°	4554	4593	4590
25°	4447	4534	4548
30°	4339	4466	4502
35°	4232	4369	4389
40°	4087	4272	4268
45°	3938	4123	4164
50°	3790	3985	4038
55°	3630	3845	3867
60°	3477	3708	3681
65°	3294	3480	3412
70°	3036	3197	3051
75°	2685	2796	2441
80°	2159	2190	1706
85°	1414	1352	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	3.7
10°-20°	471.0	10.3
20°-30°	701.3	15.3
30°-40°	825.4	18.0
40°-50°	827.6	18.1
50°-60°	725.7	15.9
60°-70°	530.7	11.6
70°-80°	273.5	6.0
80°-90°	54.9	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°	1339.8	29.3
0°-40°	2165.2	47.3
0°-60°	3718.6	81.2
0°-90°	4577.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4577.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1782	1782	1782	1782	1782	
5°	1775	1764	1763	1774	1766	168
15°	1668	1671	1666	1677	1667	469
25°	1498	1504	1527	1548	1532	690
35°	1288	1294	1330	1345	1336	802
45°	1035	1040	1084	1097	1094	797
55°	774	791	820	831	824	694
65°	517	529	547	545	536	512
75°	258	260	269	250	235	274
85°	46	45	44	35	32	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1782.2	1782.2	1782.2	1782.2	1782.2
2.5°	1790.9	1782.2	1770.5	1780.2	1778.3
5°	1775.3	1763.6	1762.7	1774.4	1765.6
7.5°	1755.9	1753.9	1742.2	1754.9	1750.0
10°	1730.5	1728.6	1724.7	1733.4	1726.6
12.5°	1700.3	1698.4	1700.3	1705.2	1700.3
15°	1668.2	1671.1	1666.2	1676.9	1667.2
17.5°	1625.3	1628.2	1638.0	1641.8	1640.9
20°	1590.2	1592.2	1603.8	1619.4	1602.9
22.5°	1544.4	1549.3	1555.1	1583.4	1579.5
25°	1497.6	1504.5	1526.9	1548.3	1531.7
27.5°	1448.9	1455.7	1483.0	1498.6	1496.7
30°	1396.3	1403.1	1437.2	1458.7	1448.9
32.5°	1341.7	1353.4	1390.5	1409.0	1390.5
35°	1288.1	1294.0	1330.0	1344.7	1335.9
37.5°	1217.0	1239.4	1275.5	1285.2	1269.6
40°	1163.4	1164.4	1216.0	1216.0	1215.1
42.5°	1094.2	1109.8	1143.9	1162.4	1152.7
45°	1034.8	1039.7	1083.5	1097.2	1094.2
47.5°	969.5	989.0	1021.2	1036.8	1029.0
50°	905.2	918.9	952.0	972.4	964.6
52.5°	845.8	856.5	890.6	902.3	894.5
55°	773.7	791.2	819.5	831.2	824.3
57.5°	711.3	724.0	759.1	762.9	759.1
60°	646.0	660.6	688.9	691.8	684.0
62.5°	583.7	593.4	618.7	619.7	610.9
65°	517.4	529.1	546.6	544.7	535.9
67.5°	452.1	459.9	476.5	469.7	459.9
70°	385.9	392.7	406.3	396.6	387.8
72.5°	321.5	326.4	338.1	323.5	312.8
75°	258.2	260.2	268.9	250.4	234.8
77.5°	195.9	197.8	202.7	184.2	166.6
80°	139.3	139.3	141.3	121.8	110.1
82.5°	87.7	87.7	86.7	72.1	65.3
85°	45.8	44.8	43.8	35.1	32.2
87.5°	16.6	16.6	13.6	12.7	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)