

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: P486034

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6LO-20-120-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: P486034
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-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

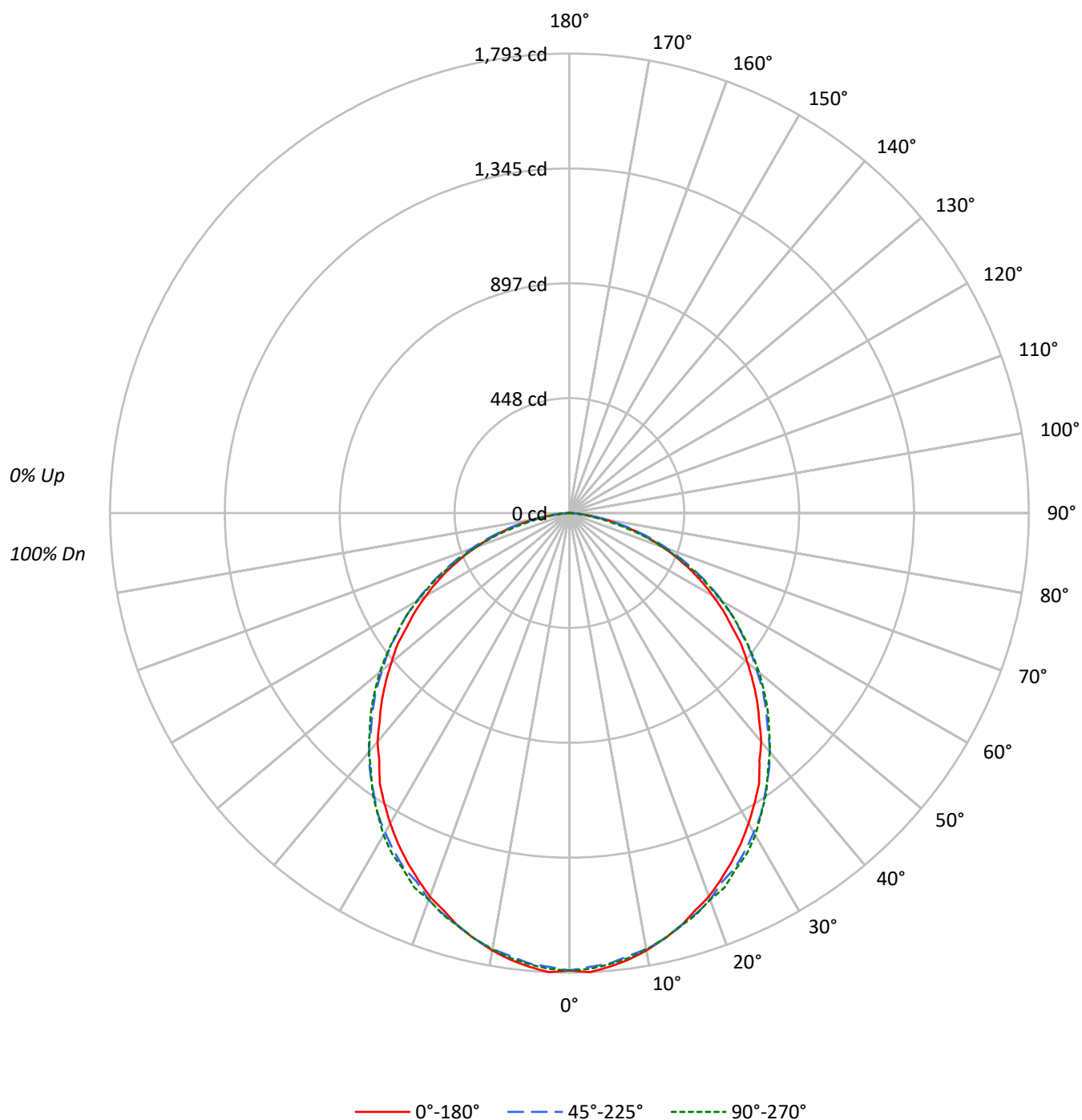
Lumens per Lamp: N/A
Luminaire Lumens: 4583.7 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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°	4802	4802	4802
5°	4802	4768	4776
10°	4735	4719	4724
15°	4654	4648	4651
20°	4560	4599	4596
25°	4453	4540	4554
30°	4345	4472	4508
35°	4237	4375	4394
40°	4092	4278	4274
45°	3943	4129	4170
50°	3795	3990	4044
55°	3635	3850	3872
60°	3482	3712	3686
65°	3299	3486	3417
70°	3040	3201	3055
75°	2689	2800	2444
80°	2162	2193	1709
85°	1417	1355	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	3.7
10°-20°	471.7	10.3
20°-30°	702.2	15.3
30°-40°	826.5	18.0
40°-50°	828.7	18.1
50°-60°	726.7	15.9
60°-70°	531.4	11.6
70°-80°	273.9	6.0
80°-90°	55.0	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°	1341.6	29.3
0°-40°	2168.1	47.3
0°-60°	3723.5	81.2
0°-90°	4583.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4583.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1778	1766	1765	1777	1768	168
15°	1670	1673	1668	1679	1669	470
25°	1500	1506	1529	1550	1534	691
35°	1290	1296	1332	1346	1338	803
45°	1036	1041	1085	1099	1096	799
55°	775	792	821	832	825	695
65°	518	530	547	545	537	512
75°	259	260	269	251	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°	1784.5	1784.5	1784.5	1784.5	1784.5
2.5°	1793.3	1784.5	1772.8	1782.6	1780.6
5°	1777.7	1766.0	1765.0	1776.7	1768.0
7.5°	1758.2	1756.2	1744.5	1757.2	1752.3
10°	1732.8	1730.9	1727.0	1735.8	1728.9
12.5°	1702.6	1700.6	1702.6	1707.5	1702.6
15°	1670.4	1673.3	1668.4	1679.2	1669.4
17.5°	1627.5	1630.4	1640.1	1644.0	1643.1
20°	1592.3	1594.3	1606.0	1621.6	1605.0
22.5°	1546.5	1551.3	1557.2	1585.5	1581.6
25°	1499.6	1506.5	1528.9	1550.4	1533.8
27.5°	1450.9	1457.7	1485.0	1500.6	1498.7
30°	1398.2	1405.0	1439.1	1460.6	1450.9
32.5°	1343.5	1355.2	1392.3	1410.8	1392.3
35°	1289.9	1295.7	1331.8	1346.5	1337.7
37.5°	1218.6	1241.1	1277.2	1286.9	1271.3
40°	1165.0	1165.9	1217.7	1217.7	1216.7
42.5°	1095.7	1111.3	1145.5	1164.0	1154.2
45°	1036.2	1041.1	1085.0	1098.6	1095.7
47.5°	970.8	990.3	1022.5	1038.1	1030.3
50°	906.4	920.1	953.2	973.7	965.9
52.5°	846.9	857.6	891.8	903.5	895.7
55°	774.7	792.3	820.6	832.3	825.4
57.5°	712.3	724.9	760.1	764.0	760.1
60°	646.9	661.5	689.8	692.7	684.9
62.5°	584.4	594.2	619.6	620.5	611.8
65°	518.1	529.8	547.4	545.4	536.6
67.5°	452.7	460.5	477.1	470.3	460.5
70°	386.4	393.2	406.9	397.1	388.3
72.5°	322.0	326.9	338.6	323.9	313.2
75°	258.6	260.5	269.3	250.8	235.1
77.5°	196.1	198.1	202.9	184.4	166.8
80°	139.5	139.5	141.5	122.0	110.3
82.5°	87.8	87.8	86.8	72.2	65.4
85°	45.9	44.9	43.9	35.1	32.2
87.5°	16.6	16.6	13.7	12.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)