

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: P485969

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4LO-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: P485969
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-LD4-4LO-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

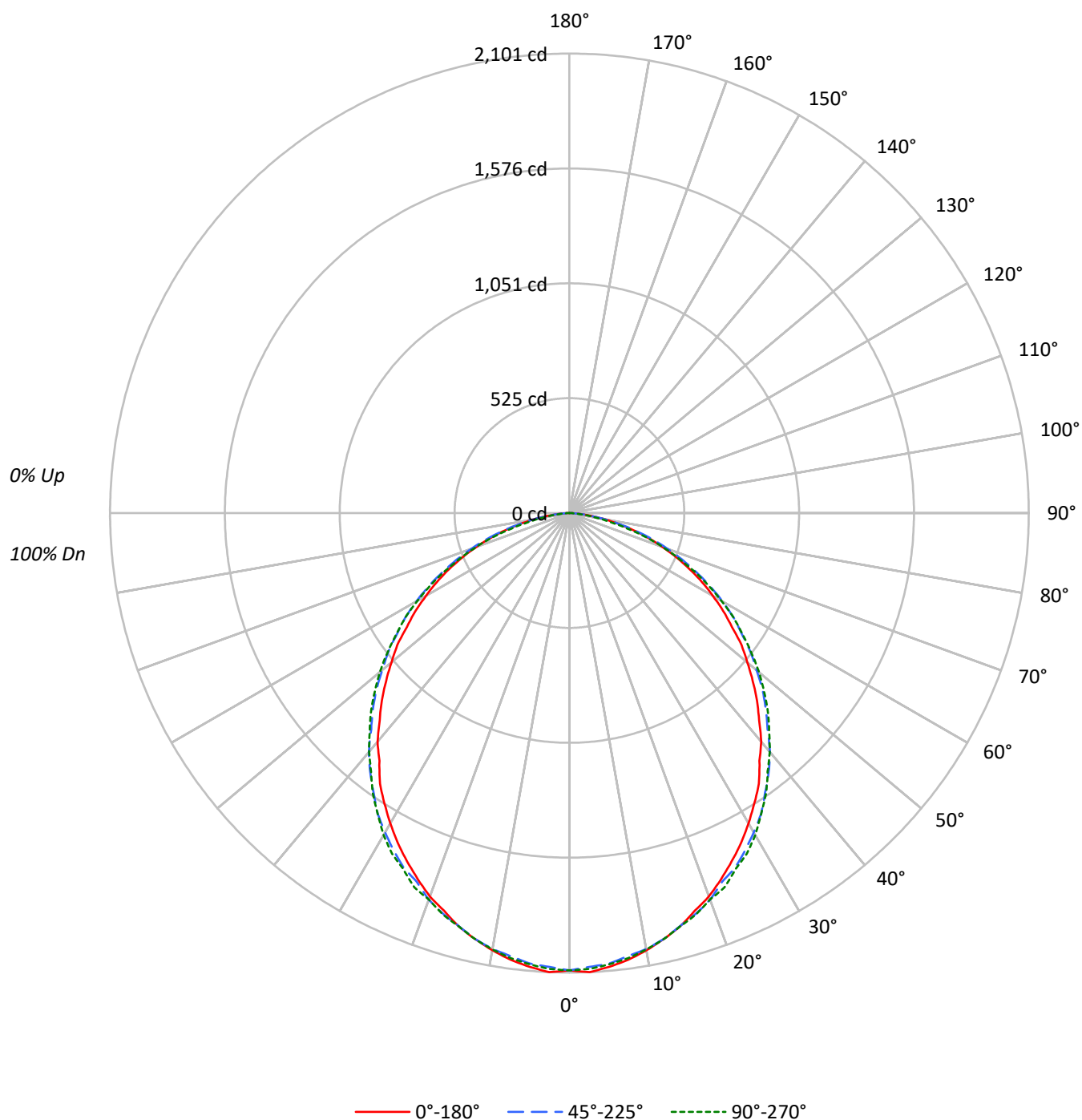
Lumens per Lamp: N/A
Luminaire Lumens: 5370.6 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	5627	5627	5627
5°	5626	5586	5596
10°	5548	5529	5535
15°	5452	5446	5449
20°	5343	5389	5385
25°	5217	5319	5336
30°	5090	5239	5282
35°	4965	5126	5149
40°	4795	5012	5008
45°	4620	4838	4886
50°	4446	4676	4738
55°	4259	4510	4537
60°	4079	4350	4319
65°	3865	4083	4004
70°	3562	3751	3580
75°	3149	3280	2864
80°	2534	2569	2002
85°	1658	1587	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	3.7
10°-20°	552.6	10.3
20°-30°	822.7	15.3
30°-40°	968.4	18.0
40°-50°	971.0	18.1
50°-60°	851.4	15.9
60°-70°	622.6	11.6
70°-80°	320.9	6.0
80°-90°	64.4	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°	1571.9	29.3
0°-40°	2540.3	47.3
0°-60°	4362.7	81.2
0°-90°	5370.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5370.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2091	2091	2091	2091	2091	
5°	2083	2069	2068	2082	2072	197
15°	1957	1961	1955	1967	1956	551
25°	1757	1765	1791	1816	1797	809
35°	1511	1518	1560	1578	1567	941
45°	1214	1220	1271	1287	1284	936
55°	908	928	961	975	967	815
65°	607	621	641	639	629	600
75°	303	305	316	294	276	321
85°	54	53	51	41	38	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2090.9	2090.9	2090.9	2090.9	2090.9
2.5°	2101.2	2090.9	2077.2	2088.6	2086.3
5°	2082.9	2069.2	2068.0	2081.7	2071.5
7.5°	2060.0	2057.7	2044.0	2058.9	2053.2
10°	2030.3	2028.0	2023.4	2033.7	2025.7
12.5°	1994.9	1992.6	1994.9	2000.6	1994.9
15°	1957.1	1960.6	1954.9	1967.4	1956.0
17.5°	1906.8	1910.3	1921.7	1926.3	1925.1
20°	1865.7	1868.0	1881.7	1900.0	1880.5
22.5°	1812.0	1817.7	1824.5	1857.7	1853.1
25°	1757.1	1765.1	1791.4	1816.5	1797.1
27.5°	1699.9	1707.9	1739.9	1758.2	1755.9
30°	1638.2	1646.2	1686.2	1711.4	1699.9
32.5°	1574.2	1587.9	1631.3	1653.1	1631.3
35°	1511.3	1518.2	1560.5	1577.6	1567.3
37.5°	1427.8	1454.1	1496.4	1507.9	1489.6
40°	1365.0	1366.1	1426.7	1426.7	1425.6
42.5°	1283.8	1302.1	1342.1	1363.8	1352.4
45°	1214.1	1219.8	1271.2	1287.2	1283.8
47.5°	1137.5	1160.3	1198.1	1216.4	1207.2
50°	1062.0	1078.0	1116.9	1140.9	1131.8
52.5°	992.3	1004.9	1044.9	1058.6	1049.4
55°	907.7	928.3	961.4	975.1	967.1
57.5°	834.5	849.4	890.5	895.1	890.5
60°	757.9	775.1	808.2	811.7	802.5
62.5°	684.8	696.2	725.9	727.1	716.8
65°	607.0	620.8	641.3	639.0	628.8
67.5°	530.4	539.6	559.0	551.0	539.6
70°	452.7	460.7	476.7	465.3	455.0
72.5°	377.3	383.0	396.7	379.5	367.0
75°	302.9	305.2	315.5	293.8	275.5
77.5°	229.8	232.1	237.8	216.1	195.5
80°	163.5	163.5	165.8	142.9	129.2
82.5°	102.9	102.9	101.7	84.6	76.6
85°	53.7	52.6	51.4	41.2	37.7
87.5°	19.4	19.4	16.0	14.9	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)