

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: P485976

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4STD-27-120-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: P485976
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-LD4-4STD-27-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

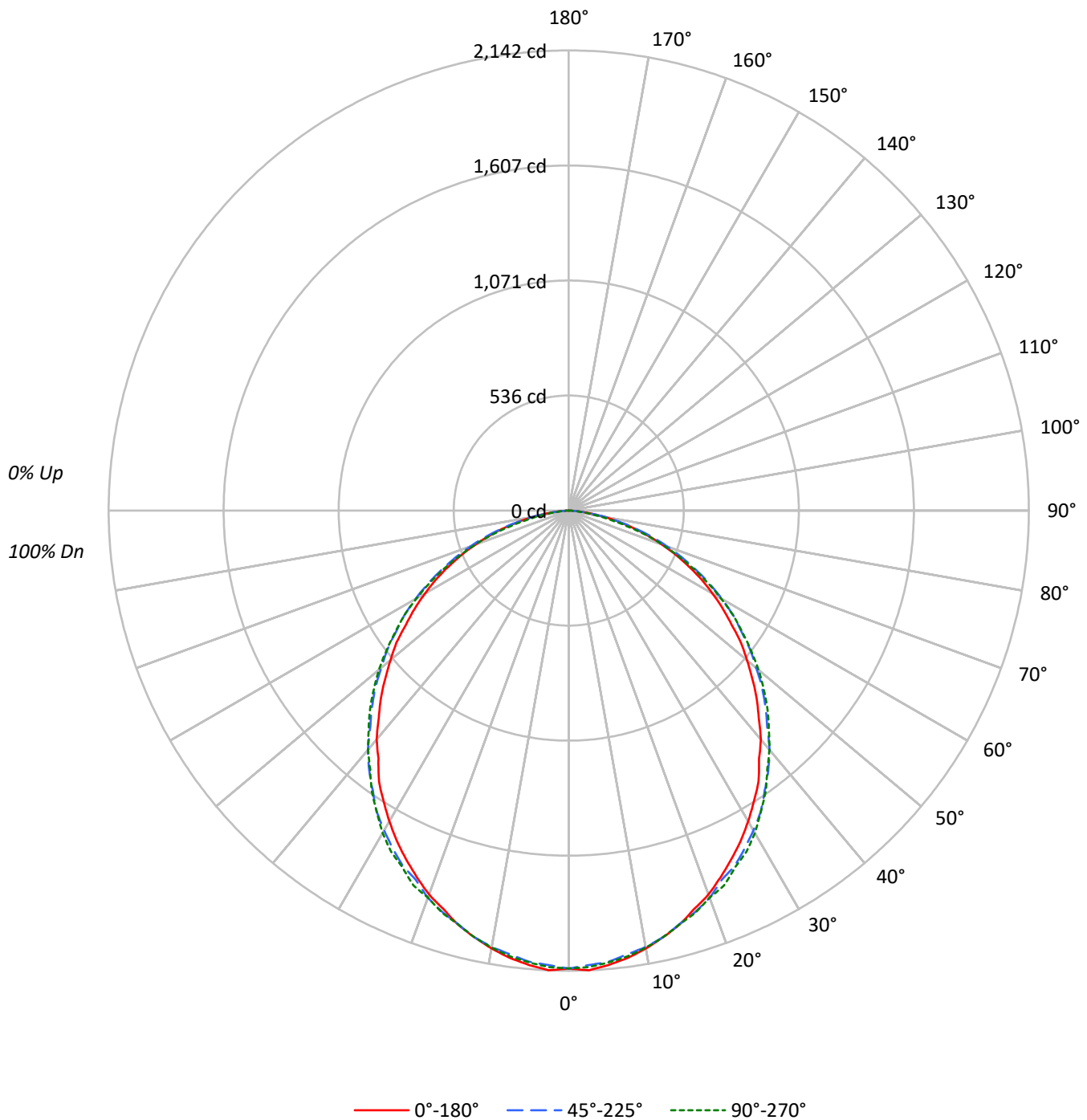
Lumens per Lamp: N/A
Luminaire Lumens: 5474.8 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5736	5736	5736
5°	5736	5695	5704
10°	5655	5636	5643
15°	5558	5552	5555
20°	5446	5493	5490
25°	5318	5422	5440
30°	5189	5341	5385
35°	5061	5226	5249
40°	4888	5109	5105
45°	4710	4932	4980
50°	4532	4767	4830
55°	4341	4598	4625
60°	4158	4434	4403
65°	3940	4163	4082
70°	3631	3824	3649
75°	3211	3344	2921
80°	2582	2619	2041
85°	1692	1618	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.3	3.7
10°-20°	563.3	10.3
20°-30°	838.7	15.3
30°-40°	987.2	18.0
40°-50°	989.8	18.1
50°-60°	868.0	15.9
60°-70°	634.7	11.6
70°-80°	327.1	6.0
80°-90°	65.6	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°	1602.4	29.3
0°-40°	2589.6	47.3
0°-60°	4447.4	81.2
0°-90°	5474.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5474.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2132	2132	2132	2132	2132	
5°	2123	2109	2108	2122	2112	201
15°	1995	1999	1993	2006	1994	561
25°	1791	1799	1826	1852	1832	825
35°	1541	1548	1591	1608	1598	959
45°	1238	1244	1296	1312	1309	954
55°	925	946	980	994	986	831
65°	619	633	654	651	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°	2131.5	2131.5	2131.5	2131.5	2131.5
2.5°	2142.0	2131.5	2117.5	2129.1	2126.8
5°	2123.3	2109.3	2108.2	2122.1	2111.7
7.5°	2100.0	2097.7	2083.7	2098.8	2093.0
10°	2069.7	2067.4	2062.7	2073.2	2065.0
12.5°	2033.6	2031.2	2033.6	2039.4	2033.6
15°	1995.1	1998.6	1992.8	2005.6	1993.9
17.5°	1943.8	1947.3	1959.0	1963.6	1962.5
20°	1901.9	1904.2	1918.2	1936.8	1917.0
22.5°	1847.1	1852.9	1859.9	1893.7	1889.1
25°	1791.2	1799.3	1826.1	1851.8	1832.0
27.5°	1732.9	1741.1	1773.7	1792.3	1790.0
30°	1670.0	1678.1	1718.9	1744.6	1732.9
32.5°	1604.7	1618.7	1663.0	1685.1	1663.0
35°	1540.6	1547.6	1590.7	1608.2	1597.7
37.5°	1455.5	1482.4	1525.5	1537.1	1518.5
40°	1391.5	1392.6	1454.4	1454.4	1453.2
42.5°	1308.7	1327.4	1368.1	1390.3	1378.6
45°	1237.6	1243.5	1295.9	1312.2	1308.7
47.5°	1159.5	1182.9	1221.3	1240.0	1230.6
50°	1082.6	1098.9	1138.6	1163.0	1153.7
52.5°	1011.5	1024.4	1065.1	1079.1	1069.8
55°	925.3	946.3	980.1	994.1	985.9
57.5°	850.7	865.9	907.8	912.5	907.8
60°	772.6	790.1	823.9	827.4	818.1
62.5°	698.1	709.7	740.0	741.2	730.7
65°	618.8	632.8	653.8	651.4	641.0
67.5°	540.7	550.1	569.9	561.7	550.1
70°	461.5	469.6	486.0	474.3	463.8
72.5°	384.6	390.4	404.4	386.9	374.1
75°	308.8	311.2	321.6	299.5	280.9
77.5°	234.2	236.6	242.4	220.3	199.3
80°	166.6	166.6	169.0	145.7	131.7
82.5°	104.9	104.9	103.7	86.2	78.1
85°	54.8	53.6	52.4	42.0	38.5
87.5°	19.8	19.8	16.3	15.1	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)