

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: P485948

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3STD-50-120-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: P485948
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-50-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

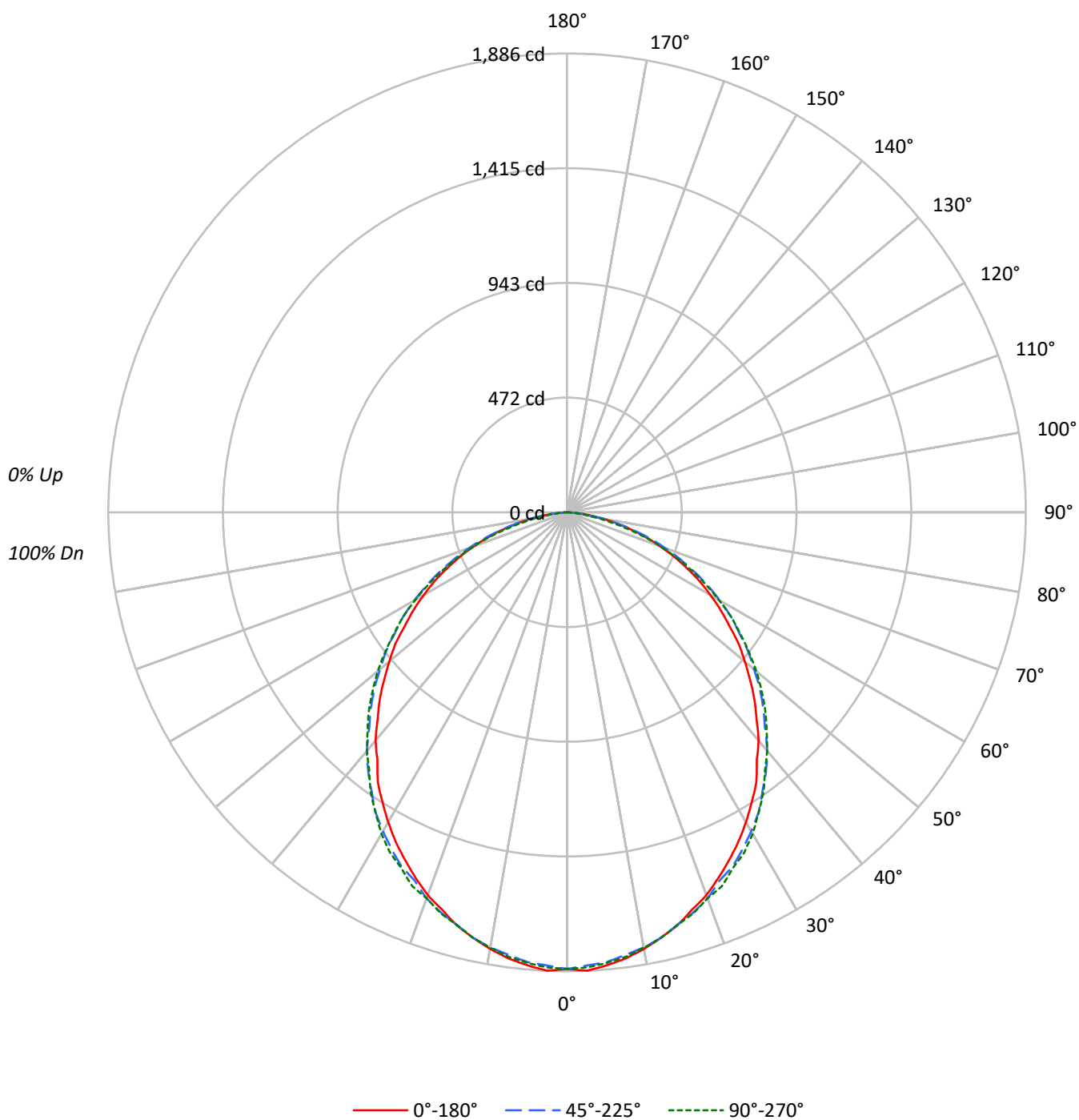
Lumens per Lamp: N/A
Luminaire Lumens: 4820.2 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5050	5050	5050
5°	5050	5014	5022
10°	4979	4962	4968
15°	4894	4888	4891
20°	4795	4836	4833
25°	4682	4774	4789
30°	4569	4703	4741
35°	4456	4601	4621
40°	4304	4498	4495
45°	4147	4342	4385
50°	3990	4196	4253
55°	3822	4048	4072
60°	3661	3904	3877
65°	3469	3665	3593
70°	3197	3367	3213
75°	2827	2944	2571
80°	2273	2306	1796
85°	1488	1426	1047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	3.7
10°-20°	496.0	10.3
20°-30°	738.4	15.3
30°-40°	869.2	18.0
40°-50°	871.5	18.1
50°-60°	764.2	15.9
60°-70°	558.8	11.6
70°-80°	288.0	6.0
80°-90°	57.8	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°	1410.8	29.3
0°-40°	2280.0	47.3
0°-60°	3915.6	81.2
0°-90°	4820.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4820.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1877	1877	1877	1877	1877	
5°	1869	1857	1856	1868	1859	177
15°	1757	1760	1754	1766	1756	494
25°	1577	1584	1608	1630	1613	726
35°	1356	1363	1400	1416	1407	845
45°	1090	1095	1141	1155	1152	840
55°	815	833	863	875	868	731
65°	545	557	576	574	564	539
75°	272	274	283	264	247	288
85°	48	47	46	37	34	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1876.6	1876.6	1876.6	1876.6	1876.6
2.5°	1885.8	1876.6	1864.3	1874.6	1872.5
5°	1869.4	1857.1	1856.1	1868.4	1859.2
7.5°	1848.9	1846.9	1834.5	1847.9	1842.8
10°	1822.2	1820.2	1816.1	1825.3	1818.1
12.5°	1790.4	1788.4	1790.4	1795.6	1790.4
15°	1756.6	1759.6	1754.5	1765.8	1755.5
17.5°	1711.4	1714.5	1724.8	1728.9	1727.8
20°	1674.5	1676.5	1688.8	1705.3	1687.8
22.5°	1626.3	1631.4	1637.5	1667.3	1663.2
25°	1577.0	1584.2	1607.8	1630.4	1612.9
27.5°	1525.7	1532.9	1561.6	1578.0	1576.0
30°	1470.3	1477.5	1513.4	1536.0	1525.7
32.5°	1412.8	1425.2	1464.1	1483.6	1464.1
35°	1356.4	1362.6	1400.5	1415.9	1406.7
37.5°	1281.5	1305.1	1343.1	1353.3	1336.9
40°	1225.1	1226.1	1280.5	1280.5	1279.5
42.5°	1152.2	1168.7	1204.6	1224.1	1213.8
45°	1089.6	1094.8	1140.9	1155.3	1152.2
47.5°	1020.9	1041.4	1075.3	1091.7	1083.5
50°	953.2	967.5	1002.4	1024.0	1015.8
52.5°	890.6	901.9	937.8	950.1	941.9
55°	814.7	833.1	862.9	875.2	868.0
57.5°	749.0	762.3	799.3	803.4	799.3
60°	680.3	695.6	725.4	728.5	720.3
62.5°	614.6	624.9	651.5	652.6	643.3
65°	544.8	557.1	575.6	573.6	564.3
67.5°	476.1	484.3	501.7	494.5	484.3
70°	406.3	413.5	427.9	417.6	408.4
72.5°	338.6	343.7	356.0	340.6	329.4
75°	271.9	274.0	283.2	263.7	247.3
77.5°	206.2	208.3	213.4	193.9	175.5
80°	146.7	146.7	148.8	128.3	115.9
82.5°	92.3	92.3	91.3	75.9	68.7
85°	48.2	47.2	46.2	36.9	33.9
87.5°	17.4	17.4	14.4	13.3	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)