

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: P487142

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1HI-30-120-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: P487142
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-24-4-INS-A125-LD4-1HI-30-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

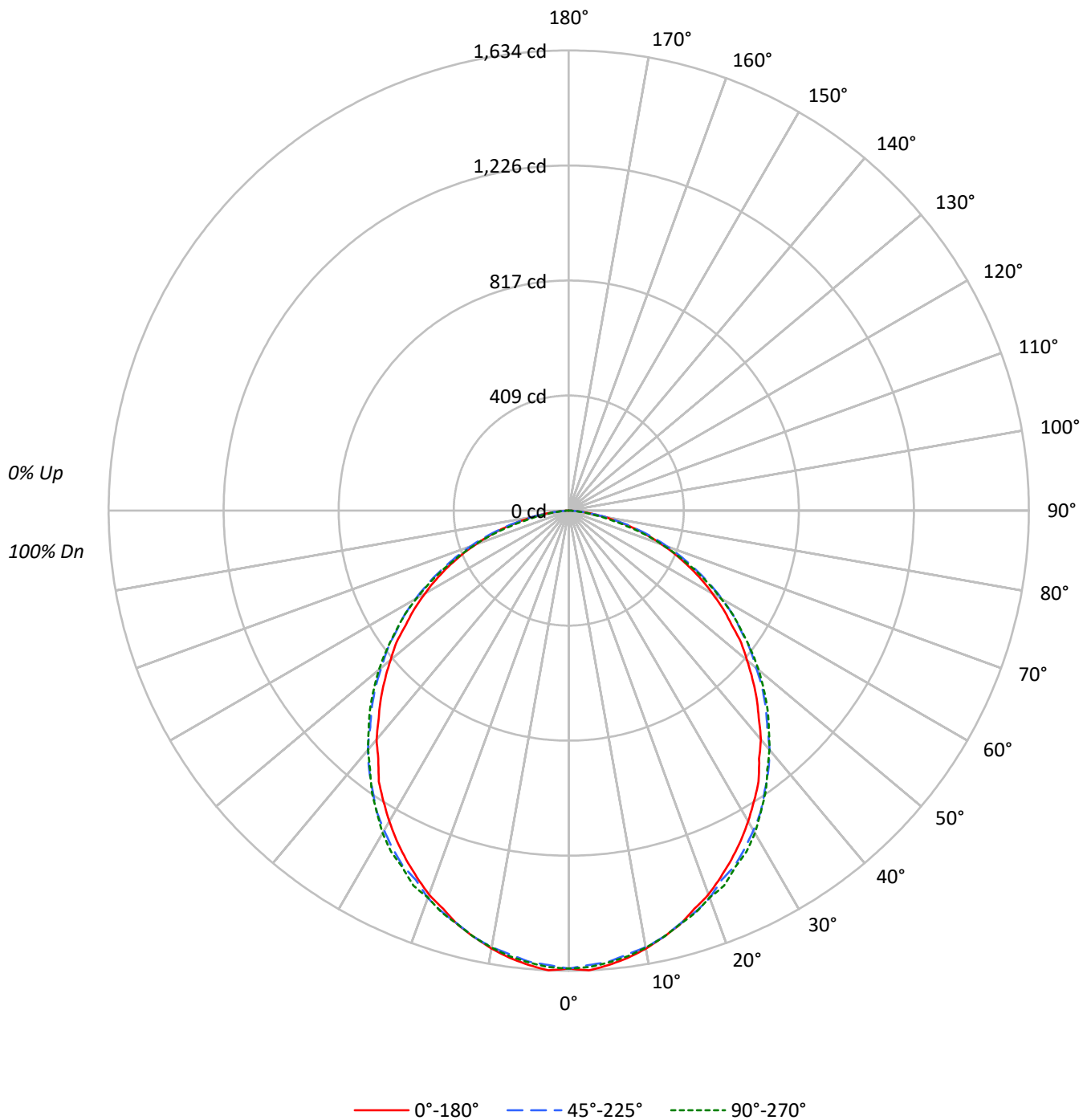
Lumens per Lamp: N/A
Luminaire Lumens: 4177.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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°	2188	2188	2188
5°	2188	2172	2176
10°	2157	2150	2153
15°	2120	2118	2119
20°	2078	2095	2094
25°	2029	2068	2075
30°	1979	2038	2054
35°	1931	1993	2002
40°	1865	1949	1947
45°	1797	1881	1900
50°	1729	1818	1842
55°	1656	1754	1765
60°	1586	1692	1680
65°	1503	1588	1557
70°	1385	1459	1392
75°	1225	1276	1114
80°	985	999	779
85°	645	618	452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	3.7
10°-20°	429.8	10.3
20°-30°	639.9	15.3
30°-40°	753.2	18.0
40°-50°	755.2	18.1
50°-60°	662.2	15.9
60°-70°	484.3	11.6
70°-80°	249.5	6.0
80°-90°	50.1	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°	1222.5	29.3
0°-40°	1975.7	47.3
0°-60°	3393.1	81.2
0°-90°	4177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1626	1626	1626	1626	1626	
5°	1620	1609	1608	1619	1611	153
15°	1522	1525	1520	1530	1521	428
25°	1367	1373	1393	1413	1398	629
35°	1175	1181	1214	1227	1219	732
45°	944	949	989	1001	998	728
55°	706	722	748	758	752	634
65°	472	483	499	497	489	467
75°	236	237	245	228	214	250
85°	42	41	40	32	29	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1626.2	1626.2	1626.2	1626.2	1626.2
2.5°	1634.2	1626.2	1615.5	1624.4	1622.6
5°	1620.0	1609.3	1608.4	1619.1	1611.1
7.5°	1602.2	1600.4	1589.7	1601.3	1596.9
10°	1579.1	1577.3	1573.7	1581.7	1575.5
12.5°	1551.5	1549.7	1551.5	1556.0	1551.5
15°	1522.2	1524.8	1520.4	1530.2	1521.3
17.5°	1483.1	1485.7	1494.6	1498.2	1497.3
20°	1451.0	1452.8	1463.5	1477.7	1462.6
22.5°	1409.3	1413.7	1419.0	1444.8	1441.3
25°	1366.6	1372.8	1393.3	1412.8	1397.7
27.5°	1322.1	1328.3	1353.2	1367.5	1365.7
30°	1274.1	1280.3	1311.5	1331.0	1322.1
32.5°	1224.3	1235.0	1268.8	1285.7	1268.8
35°	1175.4	1180.8	1213.6	1227.0	1219.0
37.5°	1110.5	1131.0	1163.9	1172.7	1158.5
40°	1061.6	1062.5	1109.6	1109.6	1108.7
42.5°	998.5	1012.7	1043.8	1060.7	1051.8
45°	944.2	948.7	988.7	1001.1	998.5
47.5°	884.7	902.5	931.8	946.0	938.9
50°	826.0	838.4	868.7	887.3	880.2
52.5°	771.8	781.5	812.7	823.3	816.2
55°	706.0	722.0	747.7	758.4	752.2
57.5°	649.1	660.6	692.6	696.2	692.6
60°	589.5	602.8	628.6	631.3	624.2
62.5°	532.6	541.5	564.6	565.5	557.5
65°	472.1	482.8	498.8	497.0	489.0
67.5°	412.6	419.7	434.8	428.6	419.7
70°	352.1	358.3	370.8	361.9	353.9
72.5°	293.4	297.9	308.5	295.2	285.4
75°	235.6	237.4	245.4	228.5	214.3
77.5°	178.7	180.5	184.9	168.0	152.0
80°	127.1	127.1	128.9	111.1	100.5
82.5°	80.0	80.0	79.1	65.8	59.6
85°	41.8	40.9	40.0	32.0	29.3
87.5°	15.1	15.1	12.4	11.6	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)