

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: P487169

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1STD-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: P487169
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-LD4-1STD-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

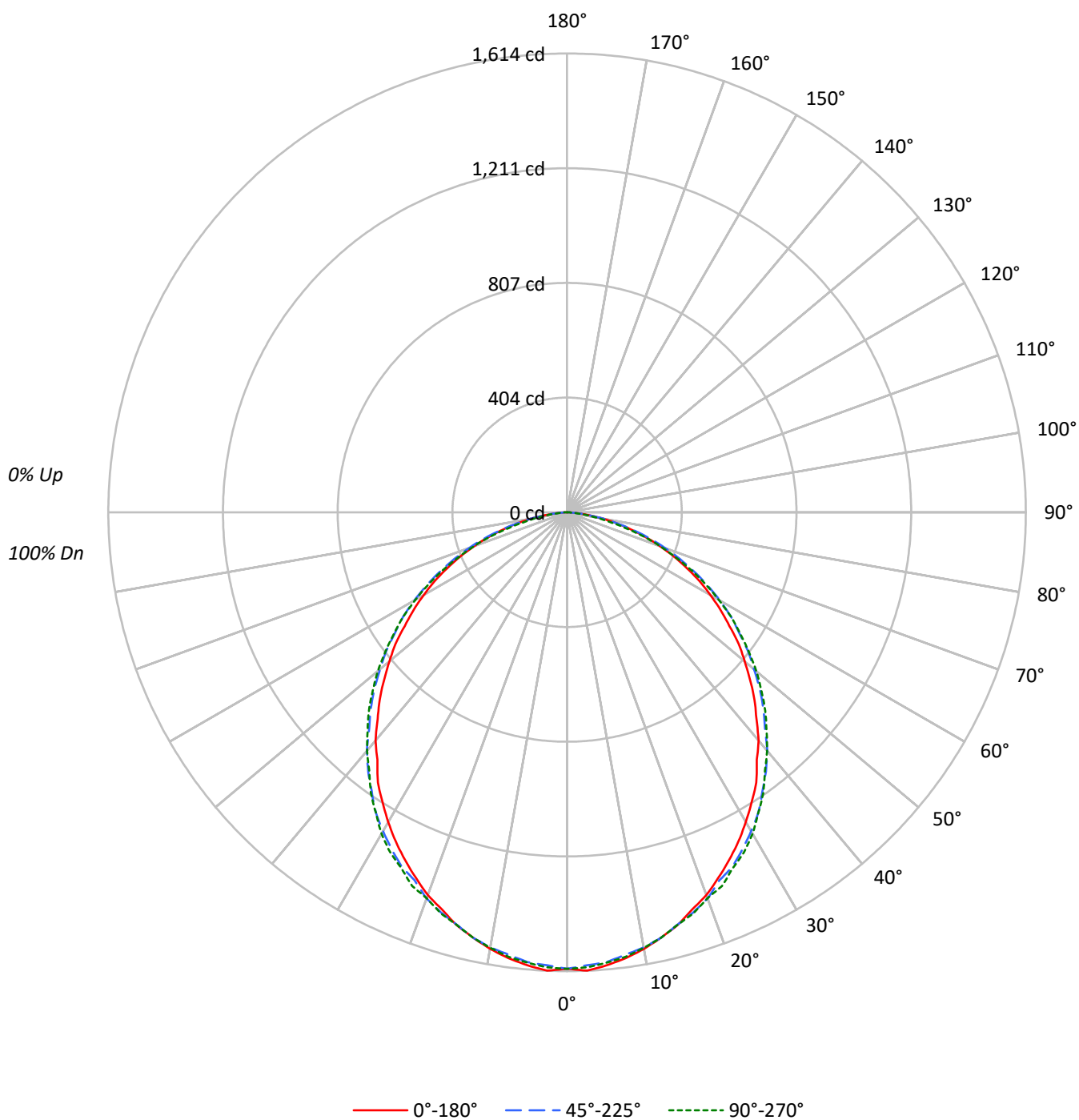
Lumens per Lamp: N/A
Luminaire Lumens: 4124.2 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	2160	2160	2160
5°	2160	2145	2148
10°	2130	2123	2125
15°	2093	2091	2092
20°	2051	2069	2068
25°	2003	2042	2049
30°	1954	2012	2028
35°	1906	1968	1977
40°	1841	1924	1923
45°	1774	1858	1876
50°	1707	1795	1819
55°	1635	1732	1742
60°	1566	1670	1658
65°	1484	1568	1537
70°	1367	1440	1375
75°	1209	1260	1100
80°	972	986	769
85°	638	610	448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	3.7
10°-20°	424.4	10.3
20°-30°	631.8	15.3
30°-40°	743.7	18.0
40°-50°	745.6	18.1
50°-60°	653.9	15.9
60°-70°	478.1	11.6
70°-80°	246.4	6.0
80°-90°	49.4	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°	1207.1	29.3
0°-40°	1950.8	47.3
0°-60°	3350.2	81.2
0°-90°	4124.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4124.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1606	1606	1606	1606	1606	
5°	1600	1589	1588	1599	1591	151
15°	1503	1506	1501	1511	1502	423
25°	1349	1355	1376	1395	1380	622
35°	1161	1166	1198	1212	1204	723
45°	932	937	976	988	986	719
55°	697	713	738	749	743	626
65°	466	477	492	491	483	461
75°	233	234	242	226	212	247
85°	41	40	40	32	29	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1605.6	1605.6	1605.6	1605.6	1605.6
2.5°	1613.5	1605.6	1595.1	1603.9	1602.1
5°	1599.5	1589.0	1588.1	1598.6	1590.7
7.5°	1581.9	1580.2	1569.7	1581.1	1576.7
10°	1559.1	1557.4	1553.8	1561.7	1555.6
12.5°	1531.9	1530.1	1531.9	1536.3	1531.9
15°	1502.9	1505.6	1501.2	1510.8	1502.1
17.5°	1464.3	1466.9	1475.7	1479.2	1478.4
20°	1432.7	1434.5	1445.0	1459.0	1444.1
22.5°	1391.4	1395.8	1401.1	1426.6	1423.0
25°	1349.3	1355.4	1375.6	1395.0	1380.0
27.5°	1305.4	1311.6	1336.1	1350.2	1348.4
30°	1258.0	1264.1	1294.9	1314.2	1305.4
32.5°	1208.8	1219.4	1252.7	1269.4	1252.7
35°	1160.6	1165.8	1198.3	1211.5	1203.6
37.5°	1096.5	1116.7	1149.1	1157.9	1143.9
40°	1048.2	1049.1	1095.6	1095.6	1094.7
42.5°	985.9	999.9	1030.6	1047.3	1038.5
45°	932.3	936.7	976.2	988.5	985.9
47.5°	873.5	891.0	920.0	934.1	927.0
50°	815.6	827.8	857.7	876.1	869.1
52.5°	762.0	771.7	802.4	812.9	805.9
55°	697.0	712.8	738.3	748.8	742.7
57.5°	640.9	652.3	683.9	687.4	683.9
60°	582.0	595.2	620.7	623.3	616.3
62.5°	525.9	534.6	557.5	558.3	550.4
65°	466.2	476.7	492.5	490.7	482.8
67.5°	407.3	414.4	429.3	423.1	414.4
70°	347.6	353.8	366.1	357.3	349.4
72.5°	289.7	294.1	304.6	291.5	281.8
75°	232.6	234.4	242.3	225.6	211.6
77.5°	176.5	178.2	182.6	165.9	150.1
80°	125.5	125.5	127.3	109.7	99.2
82.5°	79.0	79.0	78.1	65.0	58.8
85°	41.3	40.4	39.5	31.6	29.0
87.5°	14.9	14.9	12.3	11.4	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)