

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: P487188

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2LO-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: P487188
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-LD4-2LO-27-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

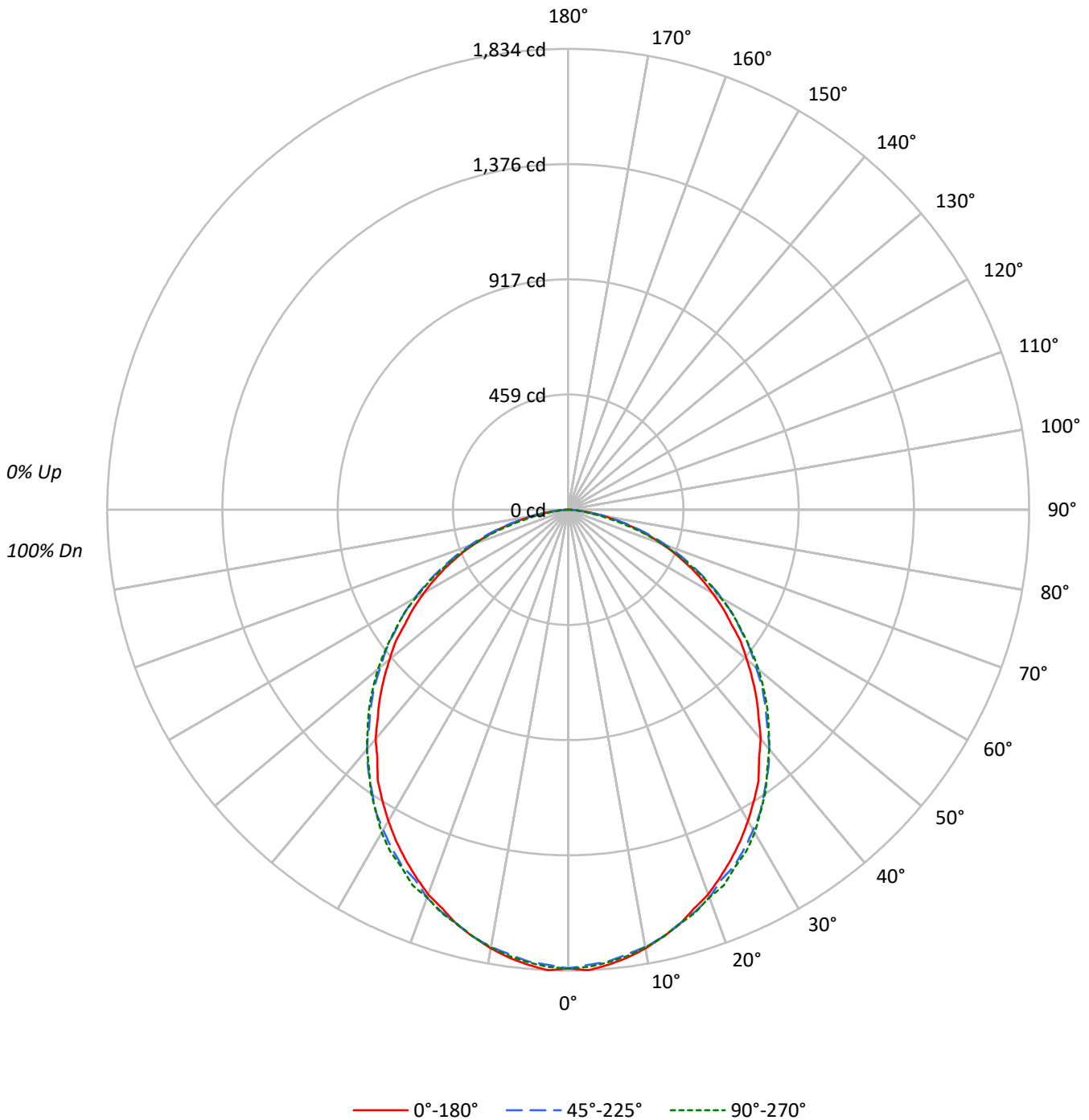
Lumens per Lamp: N/A
Luminaire Lumens: 4688.6 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2456	2456	2456
5°	2456	2438	2442
10°	2422	2413	2416
15°	2380	2377	2379
20°	2332	2352	2351
25°	2277	2322	2329
30°	2222	2287	2306
35°	2167	2238	2247
40°	2093	2188	2186
45°	2017	2112	2133
50°	1941	2041	2068
55°	1859	1969	1981
60°	1781	1899	1885
65°	1687	1783	1748
70°	1555	1637	1563
75°	1375	1432	1250
80°	1106	1121	874
85°	724	693	508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	3.7
10°-20°	482.4	10.3
20°-30°	718.3	15.3
30°-40°	845.4	18.0
40°-50°	847.7	18.1
50°-60°	743.3	15.9
60°-70°	543.5	11.6
70°-80°	280.1	6.0
80°-90°	56.2	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°	1372.3	29.3
0°-40°	2217.7	47.3
0°-60°	3808.7	81.2
0°-90°	4688.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4688.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1825	1825	1825	1825	1825	
5°	1818	1806	1805	1817	1808	172
15°	1709	1712	1707	1718	1708	481
25°	1534	1541	1564	1586	1569	707
35°	1319	1325	1362	1377	1368	822
45°	1060	1065	1110	1124	1121	817
55°	792	810	839	851	844	711
65°	530	542	560	558	549	524
75°	264	266	276	256	240	280
85°	47	46	45	36	33	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1825.4	1825.4	1825.4	1825.4	1825.4
2.5°	1834.4	1825.4	1813.4	1823.4	1821.4
5°	1818.4	1806.4	1805.4	1817.4	1808.4
7.5°	1798.4	1796.4	1784.5	1797.4	1792.4
10°	1772.5	1770.5	1766.5	1775.5	1768.5
12.5°	1741.5	1739.5	1741.5	1746.5	1741.5
15°	1708.6	1711.6	1706.6	1717.6	1707.6
17.5°	1664.7	1667.7	1677.7	1681.7	1680.7
20°	1628.8	1630.8	1642.7	1658.7	1641.7
22.5°	1581.9	1586.9	1592.8	1621.8	1617.8
25°	1534.0	1540.9	1563.9	1585.9	1568.9
27.5°	1484.1	1491.0	1519.0	1535.0	1533.0
30°	1430.2	1437.1	1472.1	1494.0	1484.1
32.5°	1374.3	1386.2	1424.2	1443.1	1424.2
35°	1319.4	1325.4	1362.3	1377.3	1368.3
37.5°	1246.5	1269.5	1306.4	1316.4	1300.4
40°	1191.6	1192.6	1245.5	1245.5	1244.5
42.5°	1120.8	1136.7	1171.7	1190.6	1180.7
45°	1059.9	1064.9	1109.8	1123.8	1120.8
47.5°	993.0	1013.0	1045.9	1061.9	1053.9
50°	927.2	941.1	975.1	996.0	988.0
52.5°	866.3	877.3	912.2	924.2	916.2
55°	792.4	810.4	839.3	851.3	844.3
57.5°	728.6	741.5	777.5	781.4	777.5
60°	661.7	676.7	705.6	708.6	700.6
62.5°	597.8	607.8	633.7	634.7	625.8
65°	529.9	541.9	559.9	557.9	548.9
67.5°	463.1	471.1	488.0	481.0	471.1
70°	395.2	402.2	416.2	406.2	397.2
72.5°	329.3	334.3	346.3	331.3	320.4
75°	264.5	266.5	275.5	256.5	240.5
77.5°	200.6	202.6	207.6	188.6	170.7
80°	142.7	142.7	144.7	124.8	112.8
82.5°	89.8	89.8	88.8	73.9	66.9
85°	46.9	45.9	44.9	35.9	32.9
87.5°	17.0	17.0	14.0	13.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)