

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: P487192

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2LO-35-120-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: P487192
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-35-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

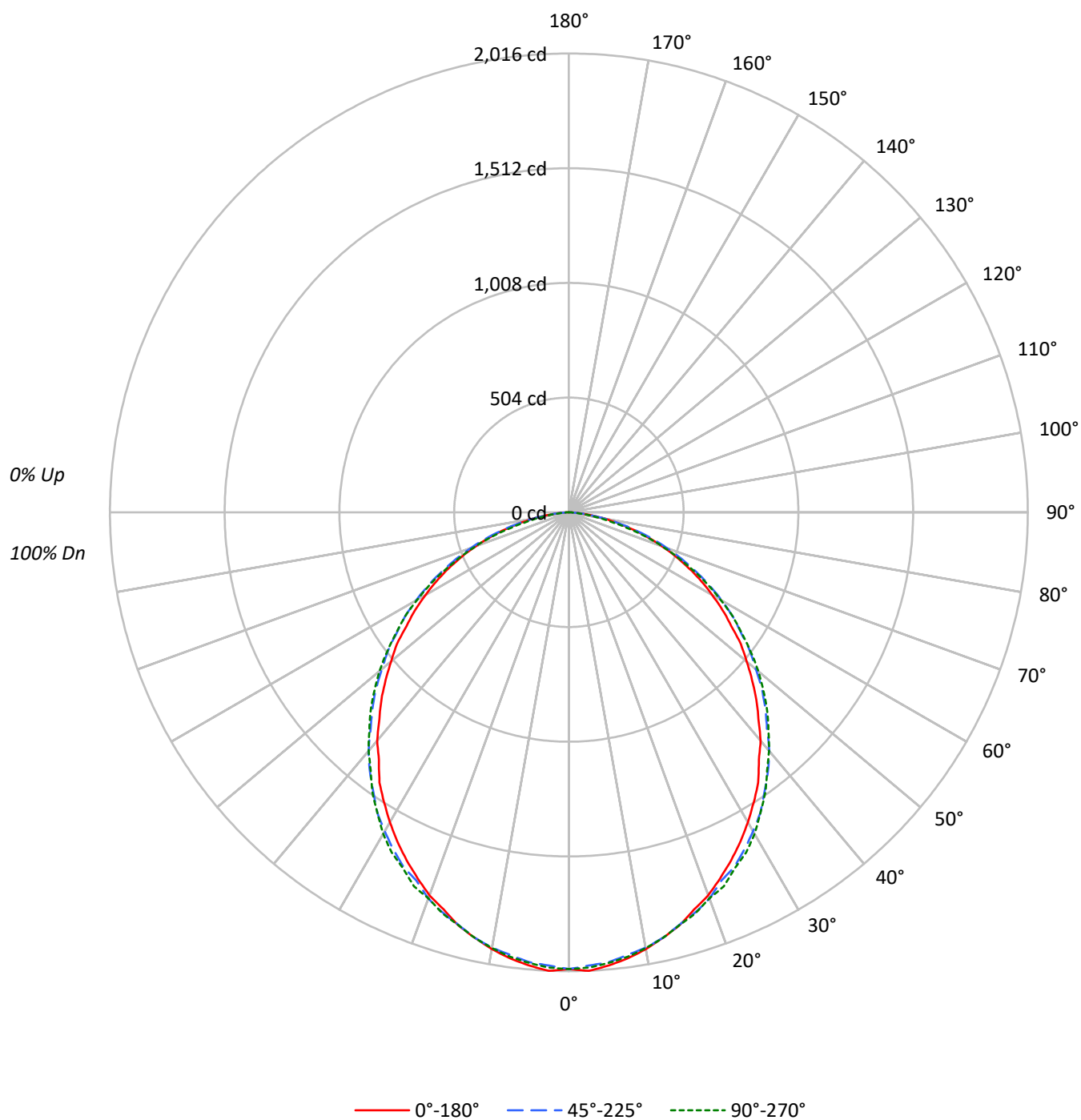
Lumens per Lamp: N/A
Luminaire Lumens: 5153.8 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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			
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°	2700	2700	2700
5°	2700	2680	2685
10°	2662	2653	2656
15°	2616	2613	2615
20°	2564	2585	2584
25°	2503	2552	2560
30°	2442	2514	2534
35°	2382	2460	2470
40°	2301	2405	2403
45°	2217	2321	2344
50°	2133	2244	2273
55°	2043	2164	2177
60°	1957	2087	2072
65°	1855	1959	1921
70°	1709	1800	1718
75°	1511	1574	1375
80°	1216	1233	961
85°	797	763	559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.6	3.7
10°-20°	530.3	10.3
20°-30°	789.5	15.3
30°-40°	929.3	18.0
40°-50°	931.8	18.1
50°-60°	817.1	15.9
60°-70°	597.5	11.6
70°-80°	307.9	6.0
80°-90°	61.8	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°	1508.4	29.3
0°-40°	2437.8	47.3
0°-60°	4186.6	81.2
0°-90°	5153.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5153.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	1999	1986	1984	1998	1988	189
15°	1878	1881	1876	1888	1877	529
25°	1686	1694	1719	1743	1725	777
35°	1450	1457	1498	1514	1504	903
45°	1165	1170	1220	1235	1232	898
55°	871	891	923	936	928	782
65°	582	596	615	613	603	576
75°	291	293	303	282	264	308
85°	52	50	49	40	36	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2006.5	2006.5	2006.5	2006.5	2006.5
2.5°	2016.4	2006.5	1993.3	2004.3	2002.1
5°	1998.8	1985.6	1984.5	1997.7	1987.8
7.5°	1976.9	1974.7	1961.5	1975.8	1970.3
10°	1948.3	1946.2	1941.8	1951.6	1944.0
12.5°	1914.3	1912.1	1914.3	1919.8	1914.3
15°	1878.1	1881.4	1875.9	1888.0	1877.0
17.5°	1829.9	1833.2	1844.1	1848.5	1847.4
20°	1790.4	1792.6	1805.7	1823.3	1804.6
22.5°	1738.8	1744.3	1750.9	1782.7	1778.3
25°	1686.2	1693.8	1719.1	1743.2	1724.6
27.5°	1631.3	1639.0	1669.7	1687.3	1685.1
30°	1572.1	1579.7	1618.1	1642.3	1631.3
32.5°	1510.6	1523.8	1565.5	1586.3	1565.5
35°	1450.3	1456.9	1497.5	1513.9	1504.0
37.5°	1370.2	1395.4	1436.0	1447.0	1429.4
40°	1309.9	1311.0	1369.1	1369.1	1368.0
42.5°	1232.0	1249.5	1287.9	1308.8	1297.8
45°	1165.1	1170.5	1219.9	1235.3	1232.0
47.5°	1091.6	1113.5	1149.7	1167.3	1158.5
50°	1019.2	1034.5	1071.8	1094.8	1086.1
52.5°	952.2	964.3	1002.7	1015.9	1007.1
55°	871.1	890.8	922.6	935.8	928.1
57.5°	800.8	815.1	854.6	859.0	854.6
60°	727.3	743.8	775.6	778.9	770.1
62.5°	657.1	668.1	696.6	697.7	687.8
65°	582.5	595.7	615.4	613.2	603.4
67.5°	509.0	517.8	536.5	528.8	517.8
70°	434.4	442.1	457.5	446.5	436.6
72.5°	362.0	367.5	380.7	364.2	352.2
75°	290.7	292.9	302.8	281.9	264.4
77.5°	220.5	222.7	228.2	207.3	187.6
80°	156.9	156.9	159.1	137.1	124.0
82.5°	98.7	98.7	97.6	81.2	73.5
85°	51.6	50.5	49.4	39.5	36.2
87.5°	18.6	18.6	15.4	14.3	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)