

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: P487199

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2STD-20-120-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: P487199
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-LD4-2STD-20-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

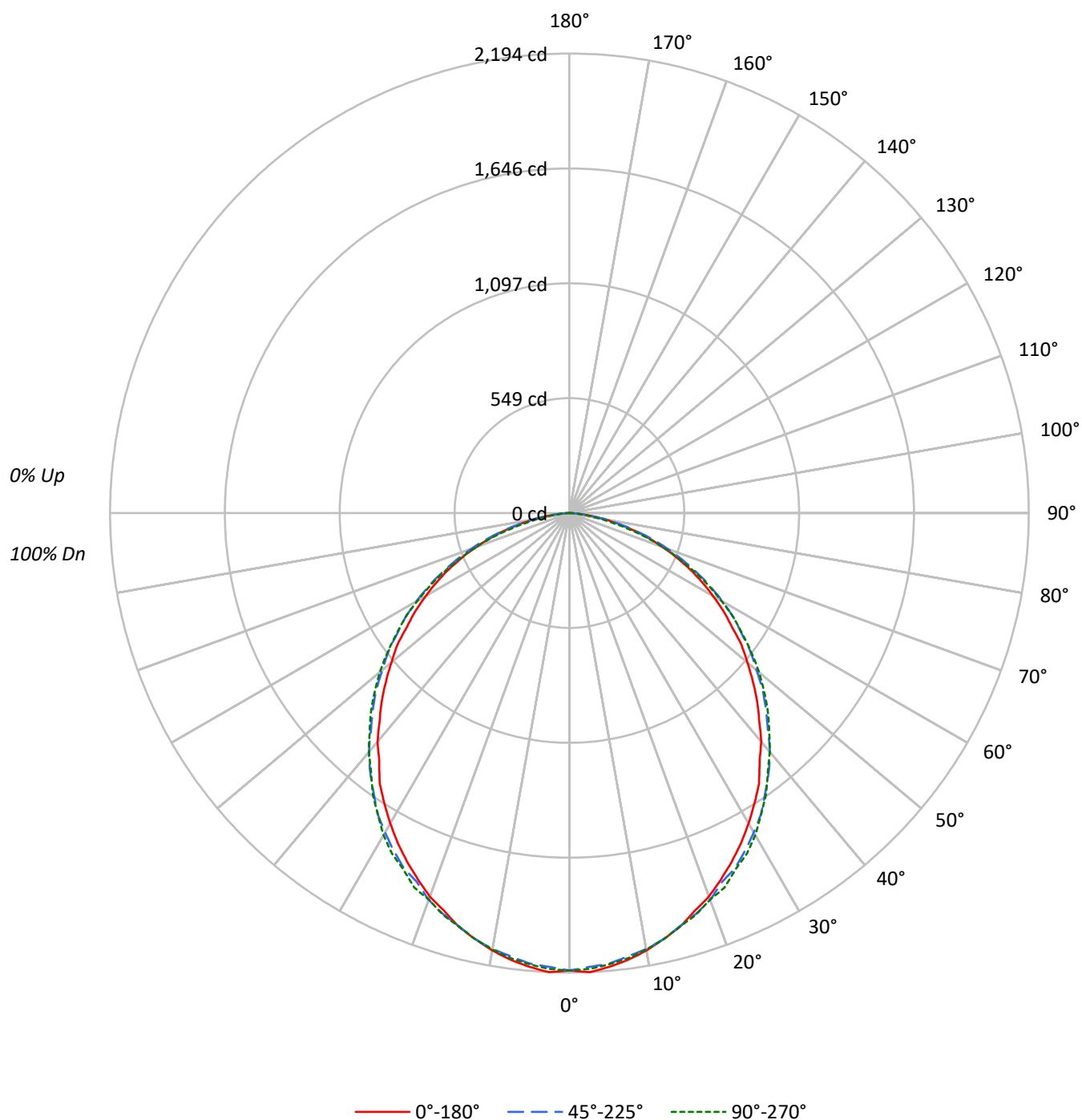
Lumens per Lamp: N/A
Luminaire Lumens: 5608.9 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	2938	2938	2938
5°	2938	2917	2922
10°	2897	2887	2890
15°	2847	2844	2846
20°	2790	2814	2812
25°	2724	2778	2786
30°	2658	2736	2758
35°	2593	2677	2689
40°	2504	2617	2615
45°	2413	2526	2551
50°	2322	2442	2474
55°	2224	2355	2369
60°	2130	2271	2255
65°	2018	2132	2091
70°	1860	1959	1869
75°	1645	1713	1496
80°	1323	1341	1045
85°	866	829	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.3	3.7
10°-20°	577.1	10.3
20°-30°	859.3	15.3
30°-40°	1011.4	18.0
40°-50°	1014.0	18.1
50°-60°	889.2	15.9
60°-70°	650.2	11.6
70°-80°	335.1	6.0
80°-90°	67.2	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°	1641.6	29.3
0°-40°	2653.0	47.3
0°-60°	4556.3	81.2
0°-90°	5608.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5608.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2184	2184	2184	2184	2184	
5°	2175	2161	2160	2174	2163	206
15°	2044	2048	2042	2055	2043	575
25°	1835	1843	1871	1897	1877	845
35°	1578	1586	1630	1648	1637	983
45°	1268	1274	1328	1344	1341	977
55°	948	970	1004	1018	1010	851
65°	634	648	670	667	657	627
75°	316	319	330	307	288	335
85°	56	55	54	43	39	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2183.7	2183.7	2183.7	2183.7	2183.7
2.5°	2194.4	2183.7	2169.3	2181.3	2178.9
5°	2175.3	2161.0	2159.8	2174.1	2163.4
7.5°	2151.4	2149.0	2134.7	2150.2	2144.3
10°	2120.4	2118.0	2113.2	2124.0	2115.6
12.5°	2083.4	2081.0	2083.4	2089.4	2083.4
15°	2044.0	2047.6	2041.6	2054.7	2042.8
17.5°	1991.5	1995.0	2007.0	2011.7	2010.6
20°	1948.5	1950.9	1965.2	1984.3	1964.0
22.5°	1892.4	1898.3	1905.5	1940.1	1935.3
25°	1835.0	1843.4	1870.9	1897.1	1876.8
27.5°	1775.4	1783.7	1817.1	1836.2	1833.9
30°	1710.9	1719.2	1761.0	1787.3	1775.4
32.5°	1644.0	1658.3	1703.7	1726.4	1703.7
35°	1578.4	1585.5	1629.7	1647.6	1636.9
37.5°	1491.2	1518.7	1562.8	1574.8	1555.7
40°	1425.5	1426.7	1490.0	1490.0	1488.8
42.5°	1340.8	1359.9	1401.7	1424.3	1412.4
45°	1267.9	1273.9	1327.6	1344.3	1340.8
47.5°	1187.9	1211.8	1251.2	1270.3	1260.8
50°	1109.1	1125.9	1166.5	1191.5	1182.0
52.5°	1036.3	1049.5	1091.2	1105.6	1096.0
55°	948.0	969.5	1004.1	1018.4	1010.1
57.5°	871.6	887.1	930.1	934.8	930.1
60°	791.6	809.5	844.1	847.7	838.1
62.5°	715.2	727.1	758.1	759.3	748.6
65°	634.0	648.3	669.8	667.4	656.7
67.5°	554.0	563.5	583.8	575.5	563.5
70°	472.8	481.1	497.9	485.9	475.2
72.5°	394.0	400.0	414.3	396.4	383.2
75°	316.4	318.8	329.5	306.8	287.7
77.5°	240.0	242.4	248.3	225.6	204.2
80°	170.7	170.7	173.1	149.2	134.9
82.5°	107.5	107.5	106.3	88.3	80.0
85°	56.1	54.9	53.7	43.0	39.4
87.5°	20.3	20.3	16.7	15.5	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)