

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: P487145

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1HI-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: P487145
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-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

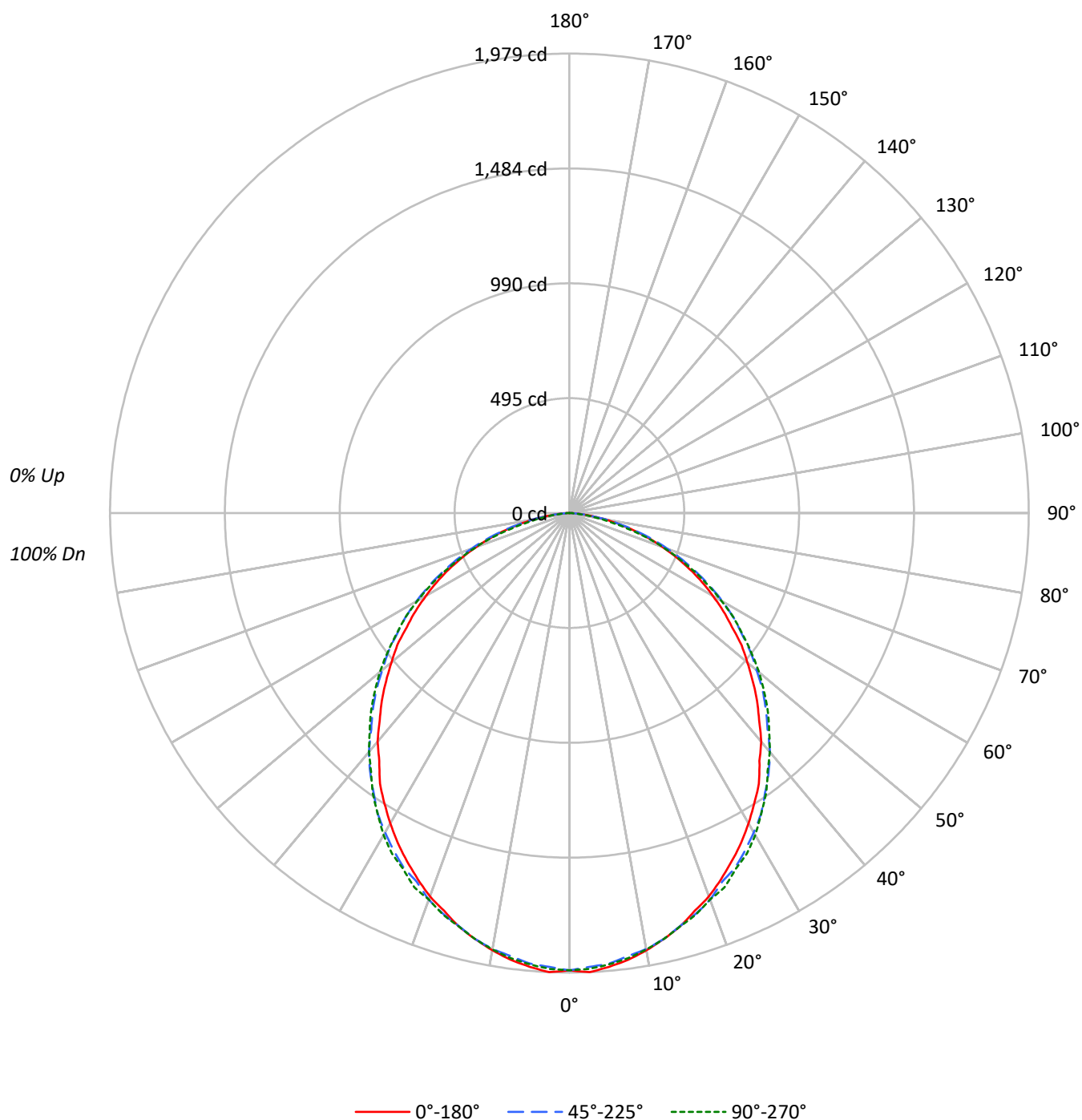
Lumens per Lamp: N/A
Luminaire Lumens: 5058.6 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2650	2650	2650
5°	2650	2631	2635
10°	2613	2604	2607
15°	2568	2565	2566
20°	2516	2538	2536
25°	2457	2505	2513
30°	2397	2467	2488
35°	2338	2414	2425
40°	2258	2360	2358
45°	2176	2278	2301
50°	2094	2202	2231
55°	2006	2124	2137
60°	1921	2049	2034
65°	1820	1923	1885
70°	1677	1766	1686
75°	1483	1545	1349
80°	1193	1210	943
85°	781	749	548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	3.7
10°-20°	520.5	10.3
20°-30°	775.0	15.3
30°-40°	912.2	18.0
40°-50°	914.6	18.1
50°-60°	802.0	15.9
60°-70°	586.4	11.6
70°-80°	302.2	6.0
80°-90°	60.6	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°	1480.6	29.3
0°-40°	2392.8	47.3
0°-60°	4109.3	81.2
0°-90°	5058.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5058.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1969	1969	1969	1969	1969	
5°	1962	1949	1948	1961	1951	186
15°	1843	1847	1841	1853	1842	519
25°	1655	1662	1687	1711	1693	762
35°	1424	1430	1470	1486	1476	887
45°	1144	1149	1197	1212	1209	881
55°	855	874	906	918	911	767
65°	572	585	604	602	592	566
75°	285	288	297	277	260	302
85°	51	50	48	39	36	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1969.4	1969.4	1969.4	1969.4	1969.4
2.5°	1979.1	1969.4	1956.5	1967.3	1965.1
5°	1961.9	1949.0	1947.9	1960.8	1951.1
7.5°	1940.4	1938.2	1925.3	1939.3	1933.9
10°	1912.4	1910.2	1905.9	1915.6	1908.1
12.5°	1879.0	1876.8	1879.0	1884.4	1879.0
15°	1843.4	1846.7	1841.3	1853.1	1842.4
17.5°	1796.1	1799.3	1810.1	1814.4	1813.3
20°	1757.3	1759.5	1772.4	1789.6	1771.3
22.5°	1706.7	1712.1	1718.5	1749.8	1745.5
25°	1655.0	1662.5	1687.3	1711.0	1692.7
27.5°	1601.2	1608.7	1638.9	1656.1	1653.9
30°	1543.0	1550.6	1588.2	1611.9	1601.2
32.5°	1482.7	1495.6	1536.6	1557.0	1536.6
35°	1423.5	1430.0	1469.8	1486.0	1476.3
37.5°	1344.9	1369.7	1409.5	1420.3	1403.0
40°	1285.7	1286.7	1343.8	1343.8	1342.7
42.5°	1209.2	1226.4	1264.1	1284.6	1273.8
45°	1143.5	1148.9	1197.4	1212.5	1209.2
47.5°	1071.4	1092.9	1128.5	1145.7	1137.1
50°	1000.3	1015.4	1052.0	1074.6	1066.0
52.5°	934.6	946.5	984.2	997.1	988.5
55°	855.0	874.3	905.6	918.5	911.0
57.5°	786.0	800.0	838.8	843.1	838.8
60°	713.9	730.1	761.3	764.5	755.9
62.5°	645.0	655.8	683.8	684.8	675.1
65°	571.8	584.7	604.1	601.9	592.2
67.5°	499.6	508.2	526.5	519.0	508.2
70°	426.4	433.9	449.0	438.2	428.6
72.5°	355.3	360.7	373.6	357.5	345.6
75°	285.3	287.5	297.2	276.7	259.5
77.5°	216.4	218.6	224.0	203.5	184.1
80°	154.0	154.0	156.1	134.6	121.7
82.5°	96.9	96.9	95.8	79.7	72.1
85°	50.6	49.5	48.5	38.8	35.5
87.5°	18.3	18.3	15.1	14.0	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)