

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: P486039

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6LO-30-120-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: P486039
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-24-2-INS-A125-LD4-6LO-30-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

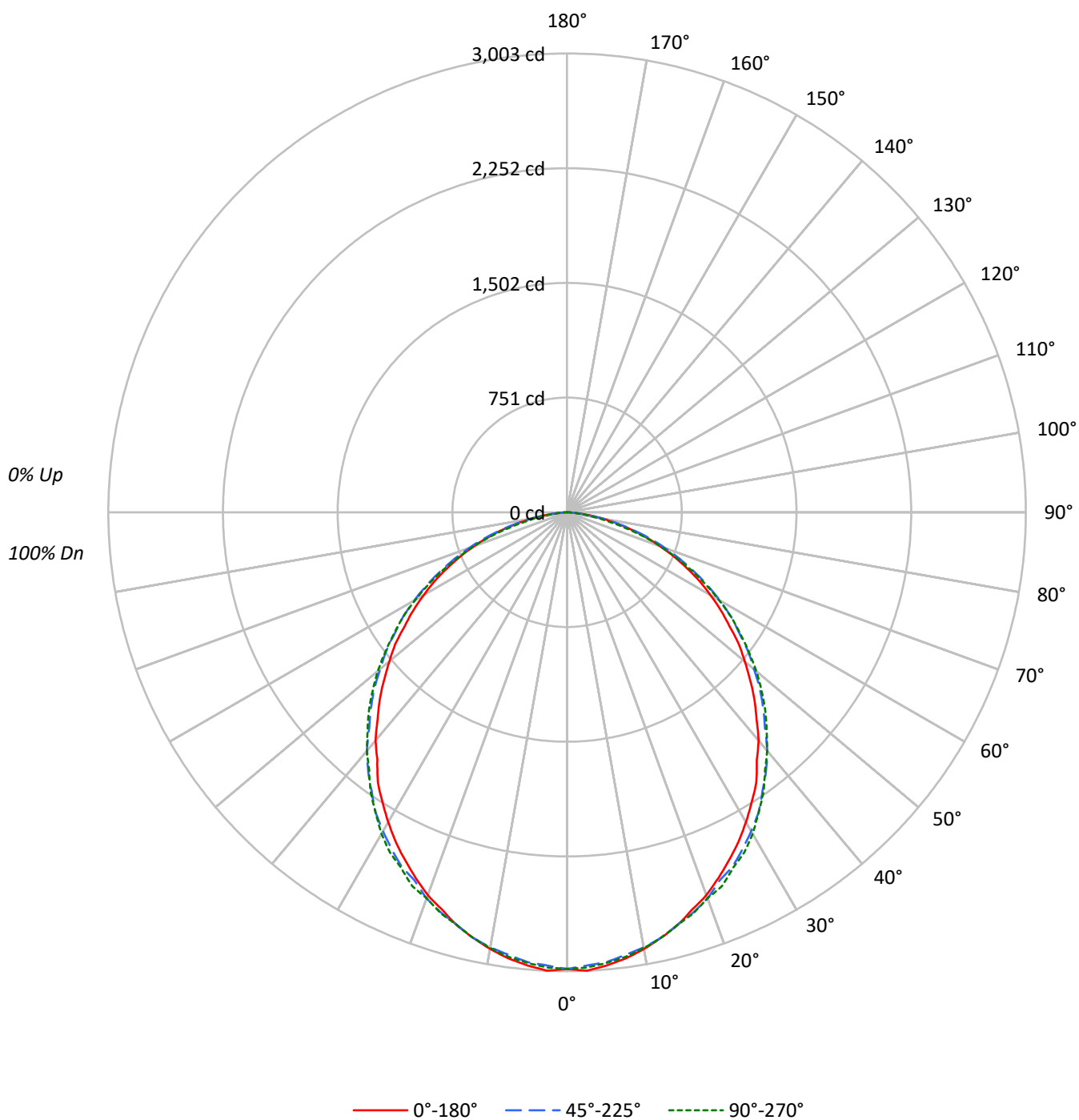
Lumens per Lamp: N/A
Luminaire Lumens: 7675.4 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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

TEST NUMBER: P486039

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6LO-30-120-EDD

Luminous Intensity Polar Plot



TEST NUMBER: P486039

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6LO-30-120-EDD

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°	8041	8041	8041
5°	8041	7984	7997
10°	7929	7902	7911
15°	7792	7783	7788
20°	7635	7701	7696
25°	7456	7602	7626
30°	7275	7488	7549
35°	7095	7326	7358
40°	6852	7163	7157
45°	6603	6914	6982
50°	6354	6682	6772
55°	6086	6446	6485
60°	5830	6217	6173
65°	5524	5836	5722
70°	5091	5360	5116
75°	4502	4688	4093
80°	3620	3671	2861
85°	2371	2269	1664



TEST NUMBER: P486039

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6LO-30-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.9	3.7
10°-20°	789.8	10.3
20°-30°	1175.8	15.3
30°-40°	1384.0	18.0
40°-50°	1387.7	18.1
50°-60°	1216.9	15.9
60°-70°	889.8	11.6
70°-80°	458.6	6.0
80°-90°	92.0	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°	2246.5	29.3
0°-40°	3630.5	47.3
0°-60°	6235.0	81.2
0°-90°	7675.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7675.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2988	2988	2988	2988	2988	
5°	2977	2957	2956	2975	2960	282
15°	2797	2802	2794	2812	2795	787
25°	2511	2523	2560	2596	2568	1157
35°	2160	2170	2230	2255	2240	1345
45°	1735	1743	1817	1840	1835	1337
55°	1297	1327	1374	1394	1382	1164
65°	868	887	917	913	899	858
75°	433	436	451	420	394	459
85°	77	75	74	59	54	100
90°	0	0	0	0	0	



TEST NUMBER: P486039

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6LO-30-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2988.2	2988.2	2988.2	2988.2	2988.2
2.5°	3002.9	2988.2	2968.6	2984.9	2981.7
5°	2976.8	2957.2	2955.5	2975.1	2960.4
7.5°	2944.1	2940.8	2921.2	2942.5	2934.3
10°	2901.6	2898.3	2891.8	2906.5	2895.1
12.5°	2851.0	2847.7	2851.0	2859.1	2851.0
15°	2797.1	2802.0	2793.8	2811.8	2795.4
17.5°	2725.2	2730.1	2746.4	2752.9	2751.3
20°	2666.3	2669.6	2689.2	2715.4	2687.6
22.5°	2589.6	2597.7	2607.5	2654.9	2648.4
25°	2511.1	2522.6	2560.2	2596.1	2568.3
27.5°	2429.4	2440.9	2486.6	2512.8	2509.5
30°	2341.2	2352.7	2409.8	2445.8	2429.4
32.5°	2249.7	2269.3	2331.4	2362.5	2331.4
35°	2159.9	2169.7	2230.1	2254.6	2239.9
37.5°	2040.6	2078.2	2138.6	2155.0	2128.8
40°	1950.7	1952.4	2039.0	2039.0	2037.3
42.5°	1834.7	1860.9	1918.1	1949.1	1932.8
45°	1735.1	1743.3	1816.8	1839.6	1834.7
47.5°	1625.6	1658.3	1712.2	1738.4	1725.3
50°	1517.8	1540.7	1596.2	1630.5	1617.5
52.5°	1418.1	1436.1	1493.3	1512.9	1499.8
55°	1297.2	1326.6	1374.0	1393.6	1382.2
57.5°	1192.7	1213.9	1272.7	1279.3	1272.7
60°	1083.2	1107.7	1155.1	1160.0	1146.9
62.5°	978.6	995.0	1037.5	1039.1	1024.4
65°	867.5	887.1	916.6	913.3	898.6
67.5°	758.1	771.1	798.9	787.5	771.1
70°	647.0	658.4	681.3	665.0	650.2
72.5°	539.2	547.3	566.9	542.4	524.4
75°	433.0	436.2	450.9	419.9	393.7
77.5°	328.4	331.7	339.8	308.8	279.4
80°	233.6	233.6	236.9	204.2	184.6
82.5°	147.0	147.0	145.4	120.9	109.5
85°	76.8	75.2	73.5	58.8	53.9
87.5°	27.8	27.8	22.9	21.2	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)