

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: P487206

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2STD-40-120-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: P487206
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-40-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

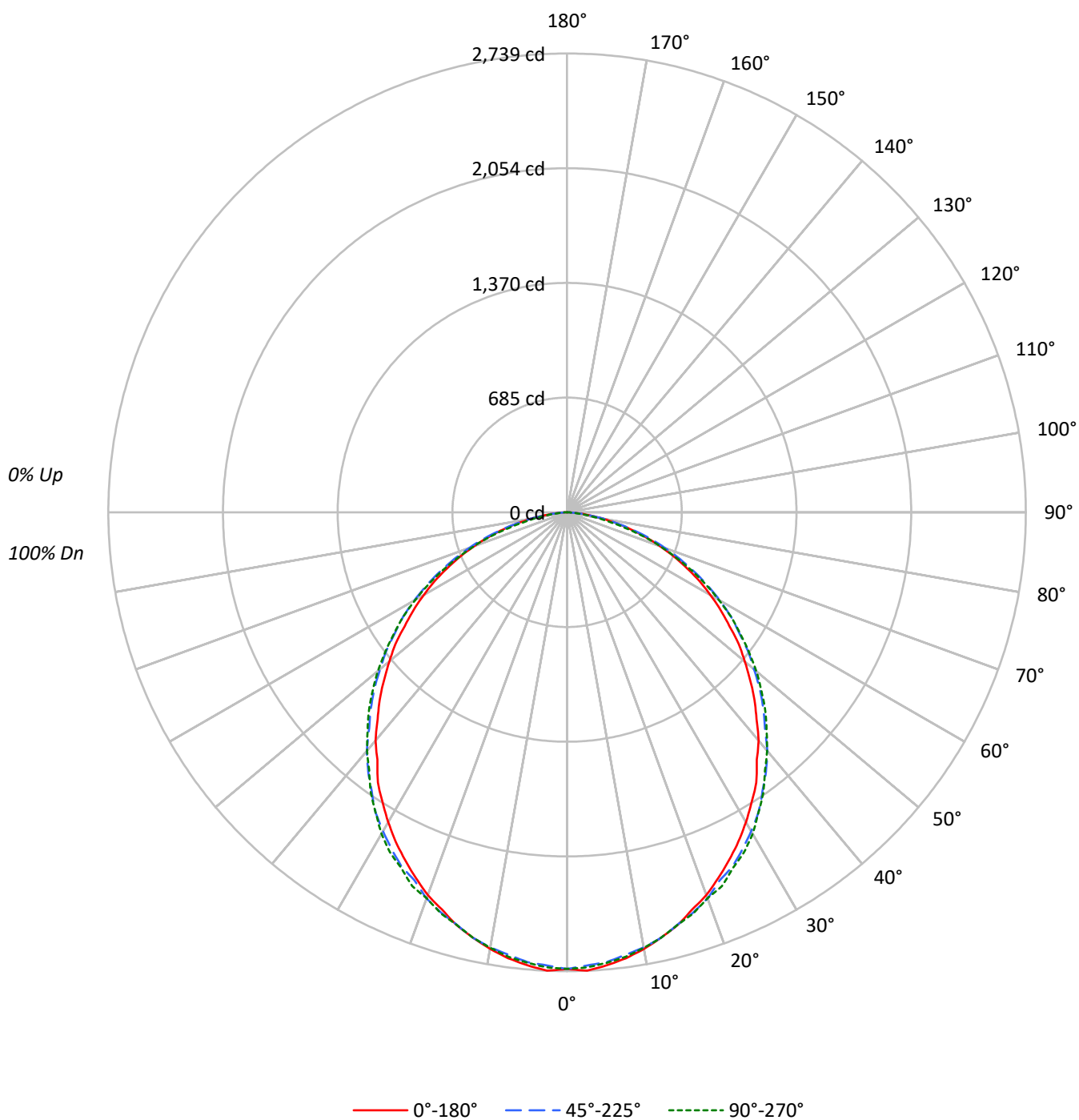
Lumens per Lamp: N/A
Luminaire Lumens: 6999.8 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	3667	3667	3667
5°	3667	3640	3646
10°	3615	3603	3607
15°	3553	3549	3551
20°	3482	3512	3509
25°	3400	3466	3477
30°	3317	3414	3442
35°	3235	3341	3355
40°	3125	3266	3263
45°	3011	3153	3184
50°	2897	3047	3088
55°	2775	2940	2957
60°	2658	2835	2815
65°	2519	2661	2609
70°	2321	2444	2333
75°	2052	2138	1867
80°	1651	1674	1305
85°	1081	1034	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.2	3.7
10°-20°	720.3	10.3
20°-30°	1072.3	15.3
30°-40°	1262.2	18.0
40°-50°	1265.5	18.1
50°-60°	1109.8	15.9
60°-70°	811.5	11.6
70°-80°	418.2	6.0
80°-90°	83.9	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°	2048.7	29.3
0°-40°	3310.9	47.3
0°-60°	5686.2	81.2
0°-90°	6999.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6999.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2725	2725	2725	2725	2725	
5°	2715	2697	2695	2713	2700	257
15°	2551	2555	2548	2564	2549	718
25°	2290	2300	2335	2368	2342	1055
35°	1970	1979	2034	2056	2043	1227
45°	1582	1590	1657	1678	1673	1219
55°	1183	1210	1253	1271	1260	1062
65°	791	809	836	833	820	783
75°	395	398	411	383	359	418
85°	70	68	67	54	49	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2725.2	2725.2	2725.2	2725.2	2725.2
2.5°	2738.6	2725.2	2707.3	2722.2	2719.2
5°	2714.7	2696.9	2695.4	2713.3	2699.8
7.5°	2684.9	2682.0	2664.1	2683.5	2676.0
10°	2646.2	2643.2	2637.3	2650.7	2640.3
12.5°	2600.0	2597.0	2600.0	2607.5	2600.0
15°	2550.9	2555.3	2547.9	2564.3	2549.4
17.5°	2485.3	2489.8	2504.7	2510.6	2509.1
20°	2431.7	2434.6	2452.5	2476.4	2451.0
22.5°	2361.6	2369.1	2378.0	2421.2	2415.3
25°	2290.1	2300.5	2334.8	2367.6	2342.3
27.5°	2215.6	2226.0	2267.8	2291.6	2288.6
30°	2135.1	2145.6	2197.7	2230.5	2215.6
32.5°	2051.7	2069.6	2126.2	2154.5	2126.2
35°	1969.8	1978.7	2033.8	2056.2	2042.8
37.5°	1861.0	1895.3	1950.4	1965.3	1941.4
40°	1779.0	1780.5	1859.5	1859.5	1858.0
42.5°	1673.3	1697.1	1749.2	1777.5	1762.6
45°	1582.4	1589.8	1656.9	1677.7	1673.3
47.5°	1482.5	1512.3	1561.5	1585.3	1573.4
50°	1384.2	1405.1	1455.7	1487.0	1475.1
52.5°	1293.3	1309.7	1361.8	1379.7	1367.8
55°	1183.0	1209.9	1253.1	1271.0	1260.5
57.5°	1087.7	1107.1	1160.7	1166.7	1160.7
60°	987.9	1010.2	1053.4	1057.9	1046.0
62.5°	892.5	907.4	946.1	947.6	934.2
65°	791.2	809.1	835.9	832.9	819.5
67.5°	691.4	703.3	728.6	718.2	703.3
70°	590.0	600.5	621.3	606.4	593.0
72.5°	491.7	499.1	517.0	494.7	478.3
75°	394.8	397.8	411.2	382.9	359.1
77.5°	299.5	302.5	309.9	281.6	254.8
80°	213.1	213.1	216.0	186.2	168.4
82.5°	134.1	134.1	132.6	110.3	99.8
85°	70.0	68.5	67.0	53.6	49.2
87.5°	25.3	25.3	20.9	19.4	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)