

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: P487202

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2STD-30-120-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: P487202
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-30-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

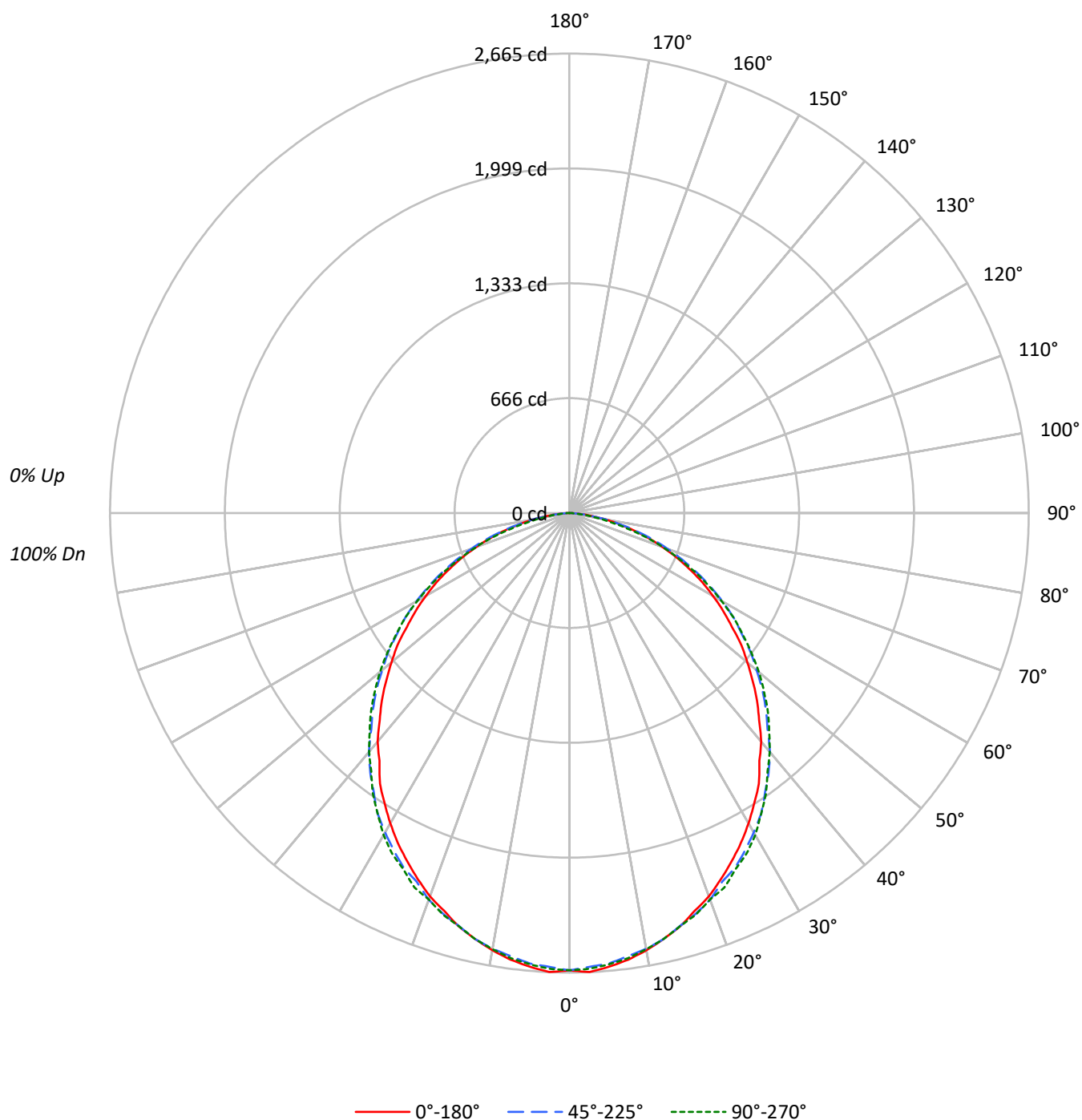
Lumens per Lamp: N/A
Luminaire Lumens: 6810.8 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3568	3568	3568
5°	3568	3542	3548
10°	3518	3506	3510
15°	3457	3453	3455
20°	3388	3417	3415
25°	3308	3373	3383
30°	3228	3322	3349
35°	3148	3250	3265
40°	3040	3178	3175
45°	2930	3068	3098
50°	2819	2965	3004
55°	2700	2860	2877
60°	2587	2758	2739
65°	2451	2589	2539
70°	2258	2378	2270
75°	1997	2080	1816
80°	1606	1629	1269
85°	1051	1007	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	3.7
10°-20°	700.8	10.3
20°-30°	1043.4	15.3
30°-40°	1228.1	18.0
40°-50°	1231.3	18.1
50°-60°	1079.8	15.9
60°-70°	789.6	11.6
70°-80°	406.9	6.0
80°-90°	81.6	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°	1993.4	29.3
0°-40°	3221.5	47.3
0°-60°	5532.7	81.2
0°-90°	6810.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6810.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2652	2652	2652	2652	2652	
5°	2641	2624	2623	2640	2627	250
15°	2482	2486	2479	2495	2480	699
25°	2228	2238	2272	2304	2279	1026
35°	1917	1925	1979	2001	1988	1194
45°	1540	1547	1612	1632	1628	1187
55°	1151	1177	1219	1237	1226	1033
65°	770	787	813	810	797	762
75°	384	387	400	373	349	407
85°	68	67	65	52	48	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2651.6	2651.6	2651.6	2651.6	2651.6
2.5°	2664.6	2651.6	2634.2	2648.7	2645.8
5°	2641.4	2624.1	2622.6	2640.0	2627.0
7.5°	2612.5	2609.6	2592.2	2611.0	2603.8
10°	2574.8	2571.9	2566.1	2579.1	2569.0
12.5°	2529.8	2526.9	2529.8	2537.1	2529.8
15°	2482.0	2486.3	2479.1	2495.0	2480.5
17.5°	2418.2	2422.5	2437.0	2442.8	2441.4
20°	2366.0	2368.9	2386.3	2409.5	2384.8
22.5°	2297.9	2305.1	2313.8	2355.8	2350.0
25°	2228.3	2238.4	2271.8	2303.7	2279.0
27.5°	2155.8	2165.9	2206.5	2229.7	2226.8
30°	2077.5	2087.6	2138.4	2170.3	2155.8
32.5°	1996.3	2013.7	2068.8	2096.3	2068.8
35°	1916.6	1925.3	1978.9	2000.7	1987.6
37.5°	1810.7	1844.1	1897.7	1912.2	1889.0
40°	1731.0	1732.5	1809.3	1809.3	1807.8
42.5°	1628.1	1651.3	1702.0	1729.6	1715.1
45°	1539.6	1546.9	1612.1	1632.4	1628.1
47.5°	1442.5	1471.5	1519.3	1542.5	1530.9
50°	1346.8	1367.1	1416.4	1446.9	1435.3
52.5°	1258.4	1274.3	1325.1	1342.5	1330.9
55°	1151.1	1177.2	1219.2	1236.6	1226.5
57.5°	1058.3	1077.2	1129.4	1135.2	1129.4
60°	961.2	982.9	1025.0	1029.3	1017.7
62.5°	868.4	882.9	920.6	922.0	909.0
65°	769.8	787.2	813.3	810.4	797.4
67.5°	672.7	684.3	708.9	698.8	684.3
70°	574.1	584.3	604.5	590.0	577.0
72.5°	478.4	485.7	503.1	481.3	465.4
75°	384.2	387.1	400.1	372.6	349.4
77.5°	291.4	294.3	301.5	274.0	247.9
80°	207.3	207.3	210.2	181.2	163.8
82.5°	130.5	130.5	129.0	107.3	97.1
85°	68.1	66.7	65.2	52.2	47.8
87.5°	24.6	24.6	20.3	18.8	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)