

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: P487234

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3STD-20-120-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: P487234
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-LD4-3STD-20-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

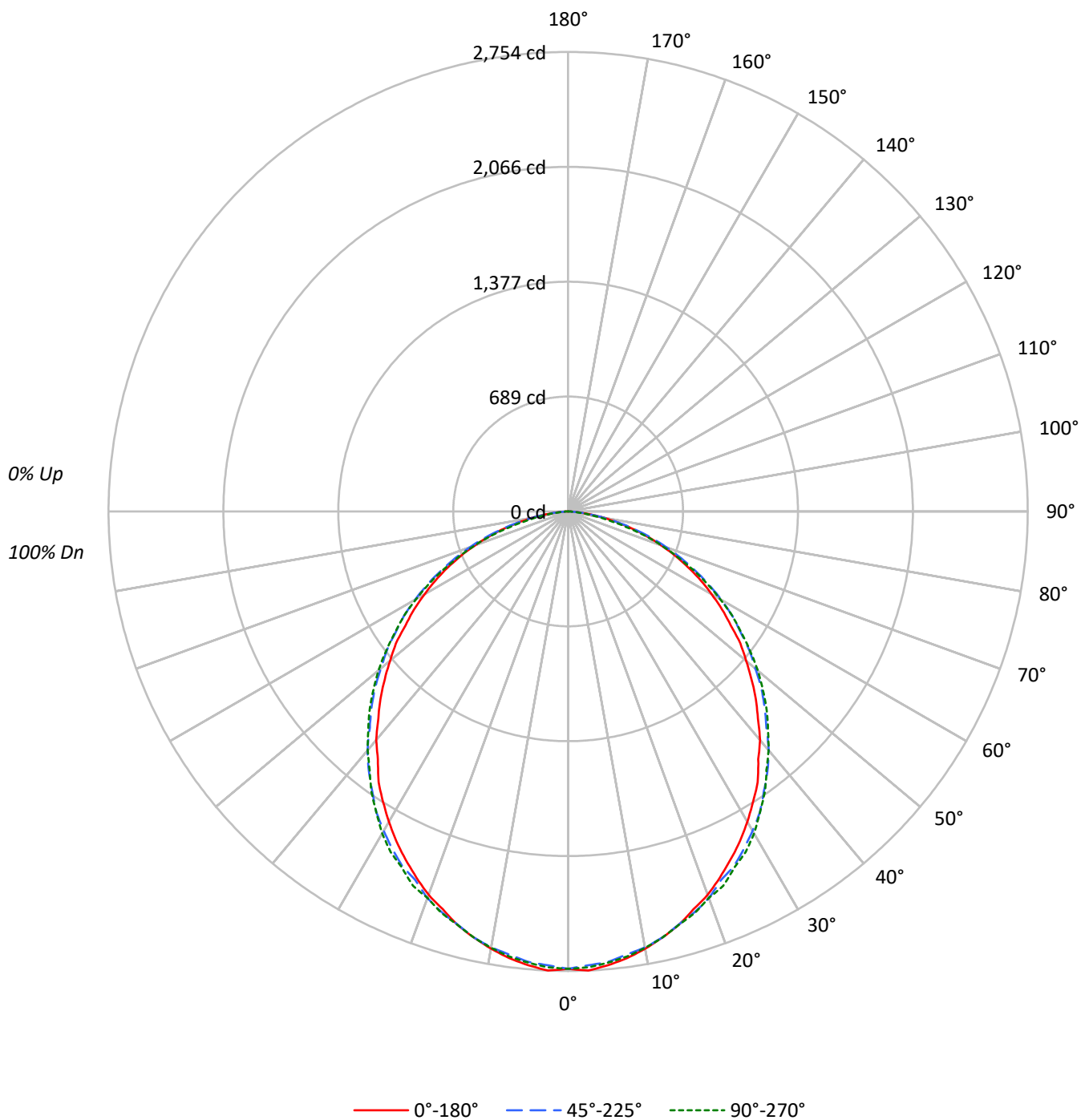
Lumens per Lamp: N/A
Luminaire Lumens: 7039.8 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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
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°	3688	3688	3688
5°	3688	3661	3667
10°	3636	3624	3628
15°	3573	3569	3571
20°	3502	3532	3529
25°	3419	3486	3497
30°	3336	3434	3462
35°	3254	3360	3374
40°	3143	3285	3282
45°	3028	3171	3202
50°	2914	3064	3105
55°	2791	2956	2974
60°	2673	2851	2831
65°	2533	2677	2624
70°	2334	2458	2346
75°	2064	2150	1877
80°	1660	1684	1312
85°	1087	1041	764



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.6	3.7
10°-20°	724.4	10.3
20°-30°	1078.5	15.3
30°-40°	1269.4	18.0
40°-50°	1272.7	18.1
50°-60°	1116.1	15.9
60°-70°	816.1	11.6
70°-80°	420.6	6.0
80°-90°	84.4	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°	2060.5	29.3
0°-40°	3329.9	47.3
0°-60°	5718.7	81.2
0°-90°	7039.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7039.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2741	2741	2741	2741	2741	
5°	2730	2712	2711	2729	2715	258
15°	2565	2570	2562	2579	2564	722
25°	2303	2314	2348	2381	2356	1061
35°	1981	1990	2045	2068	2054	1234
45°	1591	1599	1666	1687	1683	1226
55°	1190	1217	1260	1278	1268	1068
65°	796	814	841	838	824	787
75°	397	400	414	385	361	421
85°	70	69	67	54	50	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2740.8	2740.8	2740.8	2740.8	2740.8
2.5°	2754.2	2740.8	2722.8	2737.8	2734.8
5°	2730.3	2712.3	2710.8	2728.8	2715.3
7.5°	2700.3	2697.3	2679.3	2698.8	2691.3
10°	2661.3	2658.3	2652.3	2665.8	2655.3
12.5°	2614.9	2611.9	2614.9	2622.4	2614.9
15°	2565.4	2569.9	2562.4	2578.9	2563.9
17.5°	2499.5	2504.0	2519.0	2525.0	2523.5
20°	2445.5	2448.5	2466.5	2490.5	2465.0
22.5°	2375.1	2382.6	2391.6	2435.1	2429.1
25°	2303.2	2313.7	2348.1	2381.1	2355.6
27.5°	2228.3	2238.8	2280.7	2304.7	2301.7
30°	2147.3	2157.8	2210.3	2243.3	2228.3
32.5°	2063.4	2081.4	2138.4	2166.8	2138.4
35°	1981.0	1990.0	2045.4	2067.9	2054.4
37.5°	1871.6	1906.1	1961.5	1976.5	1952.5
40°	1789.2	1790.7	1870.1	1870.1	1868.6
42.5°	1682.8	1706.8	1759.2	1787.7	1772.7
45°	1591.4	1598.9	1666.3	1687.3	1682.8
47.5°	1491.0	1521.0	1570.4	1594.4	1582.4
50°	1392.1	1413.1	1464.0	1495.5	1483.5
52.5°	1300.7	1317.2	1369.6	1387.6	1375.6
55°	1189.8	1216.8	1260.2	1278.2	1267.7
57.5°	1093.9	1113.4	1167.3	1173.3	1167.3
60°	993.5	1016.0	1059.4	1063.9	1051.9
62.5°	897.6	912.6	951.5	953.0	939.6
65°	795.7	813.7	840.7	837.7	824.2
67.5°	695.3	707.3	732.8	722.3	707.3
70°	593.4	603.9	624.9	609.9	596.4
72.5°	494.5	502.0	520.0	497.5	481.0
75°	397.1	400.1	413.6	385.1	361.1
77.5°	301.2	304.2	311.7	283.2	256.2
80°	214.3	214.3	217.3	187.3	169.3
82.5°	134.9	134.9	133.4	110.9	100.4
85°	70.4	68.9	67.4	53.9	49.5
87.5°	25.5	25.5	21.0	19.5	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)