

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: P486047

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6STD-20-120-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: P486047
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-LD4-6STD-20-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

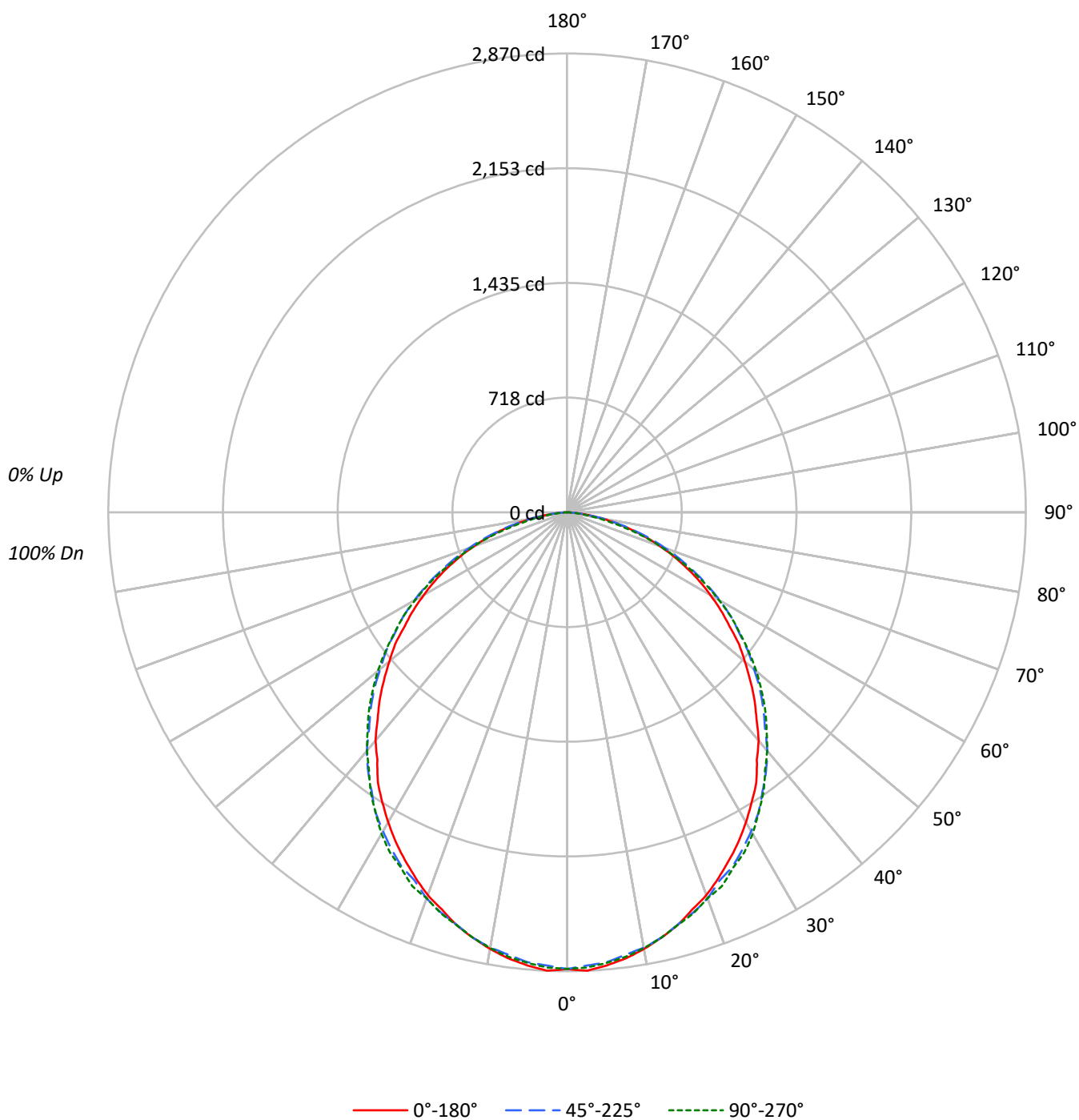
Lumens per Lamp: N/A
Luminaire Lumens: 7336.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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°	7686	7686	7686
5°	7685	7631	7643
10°	7578	7552	7561
15°	7448	7439	7443
20°	7298	7361	7356
25°	7126	7265	7289
30°	6953	7157	7215
35°	6782	7002	7033
40°	6550	6846	6840
45°	6311	6608	6674
50°	6073	6387	6472
55°	5817	6161	6198
60°	5572	5942	5900
65°	5280	5578	5469
70°	4866	5124	4890
75°	4302	4481	3912
80°	3460	3508	2735
85°	2266	2171	1590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	3.7
10°-20°	754.9	10.3
20°-30°	1123.8	15.3
30°-40°	1322.8	18.0
40°-50°	1326.3	18.1
50°-60°	1163.0	15.9
60°-70°	850.5	11.6
70°-80°	438.3	6.0
80°-90°	87.9	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°	2147.1	29.3
0°-40°	3470.0	47.3
0°-60°	5959.3	81.2
0°-90°	7336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2856	2856	2856	2856	2856	
5°	2845	2826	2825	2844	2830	269
15°	2673	2678	2670	2687	2672	752
25°	2400	2411	2447	2481	2455	1106
35°	2064	2074	2132	2155	2141	1286
45°	1658	1666	1736	1758	1754	1278
55°	1240	1268	1313	1332	1321	1113
65°	829	848	876	873	859	820
75°	414	417	431	401	376	439
85°	73	72	70	56	52	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2856.1	2856.1	2856.1	2856.1	2856.1
2.5°	2870.1	2856.1	2837.3	2852.9	2849.8
5°	2845.1	2826.4	2824.8	2843.6	2829.5
7.5°	2813.9	2810.8	2792.0	2812.3	2804.5
10°	2773.3	2770.2	2763.9	2778.0	2767.1
12.5°	2724.9	2721.8	2724.9	2732.7	2724.9
15°	2673.4	2678.1	2670.2	2687.4	2671.8
17.5°	2604.7	2609.3	2625.0	2631.2	2629.6
20°	2548.4	2551.6	2570.3	2595.3	2568.7
22.5°	2475.1	2482.9	2492.2	2537.5	2531.3
25°	2400.1	2411.0	2446.9	2481.3	2454.8
27.5°	2322.0	2333.0	2376.7	2401.7	2398.5
30°	2237.7	2248.6	2303.3	2337.6	2322.0
32.5°	2150.3	2169.0	2228.3	2258.0	2228.3
35°	2064.4	2073.7	2131.5	2154.9	2140.9
37.5°	1950.4	1986.3	2044.1	2059.7	2034.7
40°	1864.5	1866.0	1948.8	1948.8	1947.2
42.5°	1753.6	1778.6	1833.3	1862.9	1847.3
45°	1658.4	1666.2	1736.4	1758.3	1753.6
47.5°	1553.7	1585.0	1636.5	1661.5	1649.0
50°	1450.7	1472.5	1525.6	1558.4	1545.9
52.5°	1355.4	1372.6	1427.3	1446.0	1433.5
55°	1239.9	1268.0	1313.3	1332.0	1321.1
57.5°	1139.9	1160.2	1216.4	1222.7	1216.4
60°	1035.3	1058.7	1104.0	1108.7	1096.2
62.5°	935.4	951.0	991.6	993.1	979.1
65°	829.2	847.9	876.0	872.9	858.9
67.5°	724.6	737.1	763.6	752.7	737.1
70°	618.4	629.3	651.2	635.5	621.5
72.5°	515.3	523.1	541.9	518.4	501.3
75°	413.8	416.9	431.0	401.3	376.3
77.5°	313.9	317.0	324.8	295.1	267.0
80°	223.3	223.3	226.4	195.2	176.5
82.5°	140.5	140.5	139.0	115.6	104.6
85°	73.4	71.8	70.3	56.2	51.5
87.5°	26.5	26.5	21.9	20.3	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)