

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: P486037

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6LO-27-120-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: P486037
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-27-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

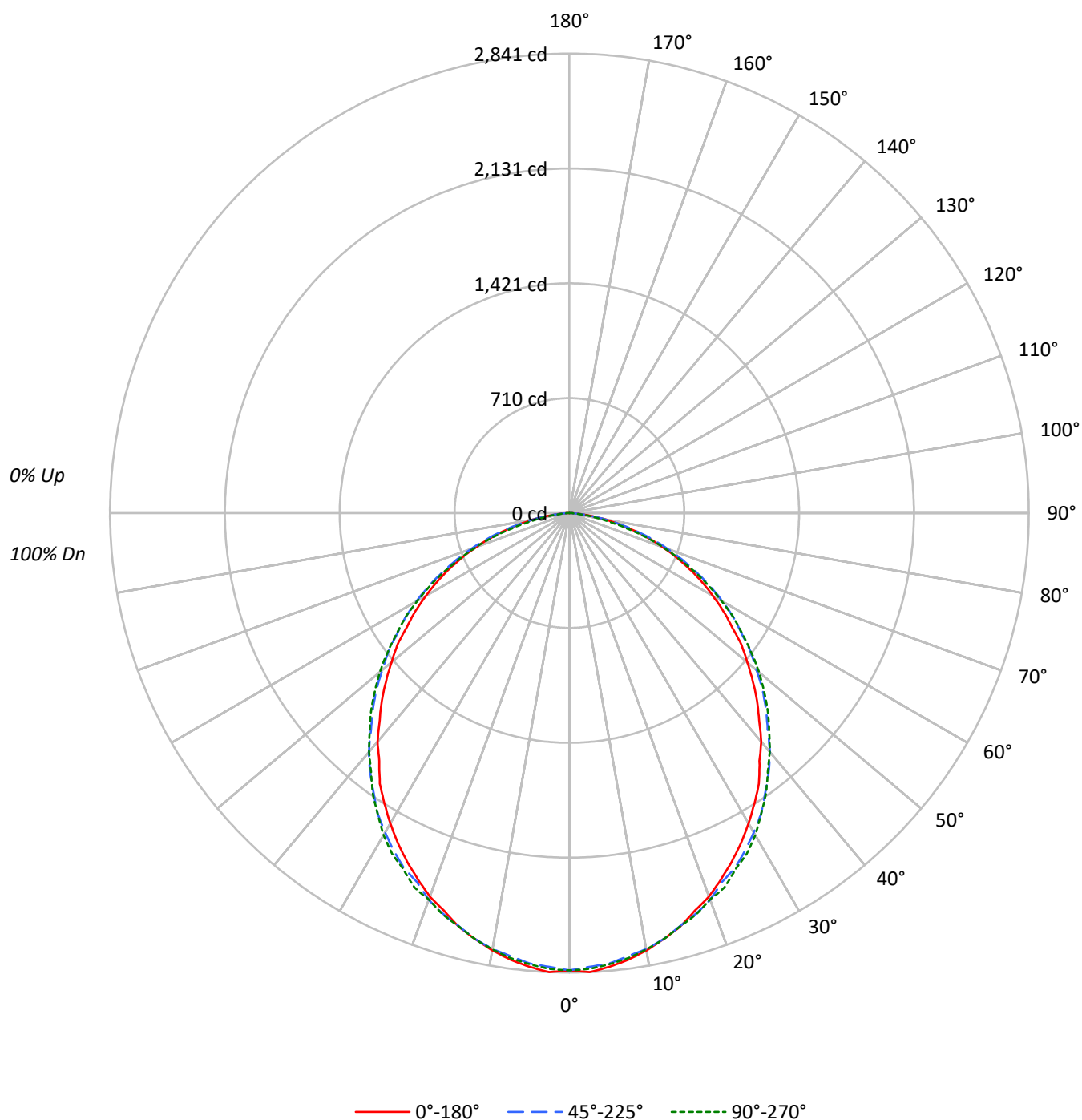
Lumens per Lamp: N/A
Luminaire Lumens: 7262.5 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	7609	7609	7609
5°	7608	7554	7567
10°	7502	7477	7485
15°	7373	7365	7369
20°	7225	7287	7282
25°	7055	7193	7216
30°	6884	7085	7143
35°	6714	6932	6962
40°	6484	6777	6772
45°	6248	6542	6607
50°	6012	6323	6407
55°	5758	6100	6136
60°	5516	5882	5841
65°	5227	5522	5414
70°	4817	5072	4841
75°	4260	4436	3874
80°	3426	3474	2707
85°	2245	2149	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.8	3.7
10°-20°	747.3	10.3
20°-30°	1112.6	15.3
30°-40°	1309.6	18.0
40°-50°	1313.0	18.1
50°-60°	1151.4	15.9
60°-70°	841.9	11.6
70°-80°	433.9	6.0
80°-90°	87.1	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°	2125.6	29.3
0°-40°	3435.2	47.3
0°-60°	5899.6	81.2
0°-90°	7262.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7262.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2828	2828	2828	2828	2828	
5°	2817	2798	2796	2815	2801	267
15°	2647	2651	2644	2660	2645	745
25°	2376	2387	2422	2456	2430	1095
35°	2044	2053	2110	2133	2119	1273
45°	1642	1650	1719	1741	1736	1265
55°	1227	1255	1300	1319	1308	1102
65°	821	839	867	864	850	812
75°	410	413	427	397	373	434
85°	73	71	70	56	51	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2827.5	2827.5	2827.5	2827.5	2827.5
2.5°	2841.4	2827.5	2808.9	2824.4	2821.3
5°	2816.6	2798.1	2796.5	2815.1	2801.2
7.5°	2785.7	2782.6	2764.1	2784.2	2776.4
10°	2745.5	2742.4	2736.2	2750.2	2739.3
12.5°	2697.6	2694.5	2697.6	2705.3	2697.6
15°	2646.6	2651.2	2643.5	2660.5	2645.0
17.5°	2578.6	2583.2	2598.7	2604.8	2603.3
20°	2522.9	2526.0	2544.6	2569.3	2543.0
22.5°	2450.3	2458.0	2467.3	2512.1	2505.9
25°	2376.1	2386.9	2422.4	2456.4	2430.2
27.5°	2298.8	2309.6	2352.9	2377.6	2374.5
30°	2215.3	2226.1	2280.2	2314.2	2298.8
32.5°	2128.7	2147.3	2206.0	2235.4	2206.0
35°	2043.7	2053.0	2110.2	2133.3	2119.4
37.5°	1930.8	1966.4	2023.6	2039.0	2014.3
40°	1845.8	1847.4	1929.3	1929.3	1927.7
42.5°	1736.0	1760.8	1814.9	1844.3	1828.8
45°	1641.7	1649.5	1719.0	1740.7	1736.0
47.5°	1538.2	1569.1	1620.1	1644.8	1632.5
50°	1436.1	1457.8	1510.3	1542.8	1530.4
52.5°	1341.8	1358.8	1413.0	1431.5	1419.1
55°	1227.4	1255.3	1300.1	1318.7	1307.8
57.5°	1128.5	1148.6	1204.3	1210.4	1204.3
60°	1024.9	1048.1	1093.0	1097.6	1085.2
62.5°	926.0	941.5	981.6	983.2	969.3
65°	820.9	839.4	867.3	864.2	850.2
67.5°	717.3	729.7	755.9	745.1	729.7
70°	612.2	623.0	644.6	629.2	615.3
72.5°	510.1	517.9	536.4	513.2	496.2
75°	409.7	412.8	426.7	397.3	372.6
77.5°	310.7	313.8	321.5	292.2	264.3
80°	221.1	221.1	224.2	193.2	174.7
82.5°	139.1	139.1	137.6	114.4	103.6
85°	72.7	71.1	69.6	55.7	51.0
87.5°	26.3	26.3	21.6	20.1	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)