

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: P485927

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3LO-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: P485927
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-LD4-3LO-20-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

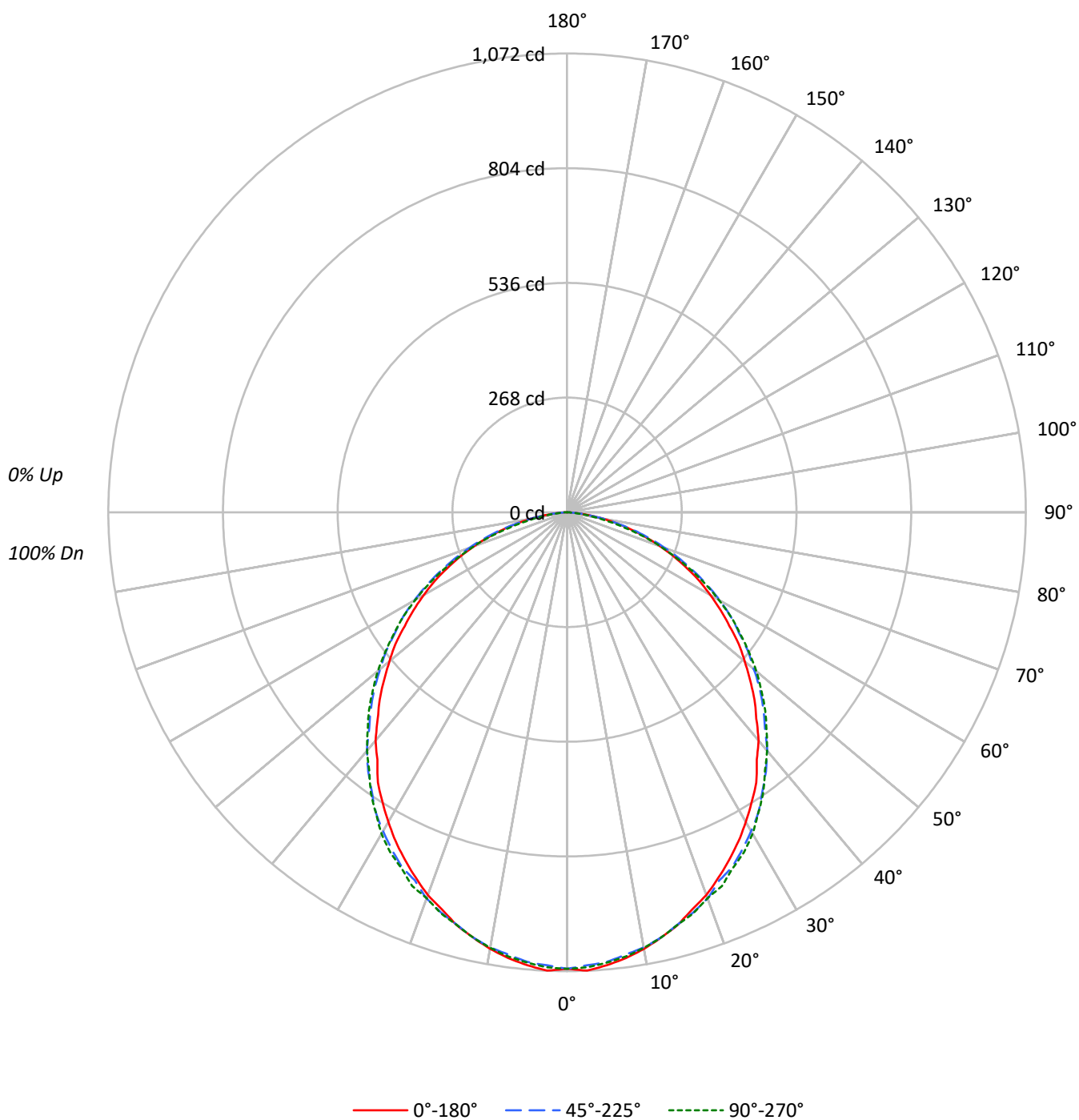
Lumens per Lamp: N/A
Luminaire Lumens: 2739.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	2870	2870	2870
5°	2870	2849	2854
10°	2829	2820	2823
15°	2781	2778	2779
20°	2725	2748	2747
25°	2661	2713	2721
30°	2596	2672	2694
35°	2532	2614	2626
40°	2445	2556	2554
45°	2356	2467	2492
50°	2267	2385	2416
55°	2172	2300	2314
60°	2080	2218	2203
65°	1971	2083	2042
70°	1817	1913	1825
75°	1606	1673	1461
80°	1292	1309	1021
85°	846	809	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.7
10°-20°	281.8	10.3
20°-30°	419.6	15.3
30°-40°	493.9	18.0
40°-50°	495.2	18.1
50°-60°	434.2	15.9
60°-70°	317.5	11.6
70°-80°	163.7	6.0
80°-90°	32.8	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°	801.7	29.3
0°-40°	1295.6	47.3
0°-60°	2225.0	81.2
0°-90°	2739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1062	1055	1055	1062	1056	101
15°	998	1000	997	1003	998	281
25°	896	900	914	926	916	413
35°	771	774	796	805	799	480
45°	619	622	648	656	655	477
55°	463	473	490	497	493	416
65°	310	317	327	326	321	306
75°	154	156	161	150	140	164
85°	27	27	26	21	19	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1066.4	1066.4	1066.4	1066.4	1066.4
2.5°	1071.6	1066.4	1059.4	1065.2	1064.0
5°	1062.3	1055.3	1054.7	1061.7	1056.4
7.5°	1050.6	1049.4	1042.5	1050.0	1047.1
10°	1035.5	1034.3	1032.0	1037.2	1033.1
12.5°	1017.4	1016.2	1017.4	1020.3	1017.4
15°	998.1	999.9	997.0	1003.4	997.6
17.5°	972.5	974.2	980.1	982.4	981.8
20°	951.5	952.7	959.7	969.0	959.1
22.5°	924.1	927.0	930.5	947.4	945.1
25°	896.1	900.2	913.6	926.4	916.5
27.5°	867.0	871.0	887.4	896.7	895.5
30°	835.5	839.6	860.0	872.8	867.0
32.5°	802.8	809.8	832.0	843.1	832.0
35°	770.8	774.3	795.8	804.6	799.3
37.5°	728.2	741.6	763.2	769.0	759.7
40°	696.1	696.7	727.6	727.6	727.0
42.5°	654.7	664.1	684.5	695.5	689.7
45°	619.2	622.1	648.3	656.5	654.7
47.5°	580.1	591.8	611.0	620.3	615.7
50°	541.6	549.8	569.6	581.9	577.2
52.5°	506.1	512.5	532.9	539.9	535.2
55°	462.9	473.4	490.3	497.3	493.2
57.5°	425.6	433.2	454.2	456.5	454.2
60°	386.5	395.3	412.2	413.9	409.3
62.5°	349.2	355.1	370.2	370.8	365.6
65°	309.6	316.6	327.1	325.9	320.7
67.5°	270.5	275.2	285.1	281.0	275.2
70°	230.9	235.0	243.1	237.3	232.0
72.5°	192.4	195.3	202.3	193.6	187.2
75°	154.5	155.7	160.9	149.8	140.5
77.5°	117.2	118.4	121.3	110.2	99.7
80°	83.4	83.4	84.5	72.9	65.9
82.5°	52.5	52.5	51.9	43.1	39.1
85°	27.4	26.8	26.2	21.0	19.2
87.5°	9.9	9.9	8.2	7.6	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)