

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: P486018

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5STD-40-120-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: P486018
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-LD4-5STD-40-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

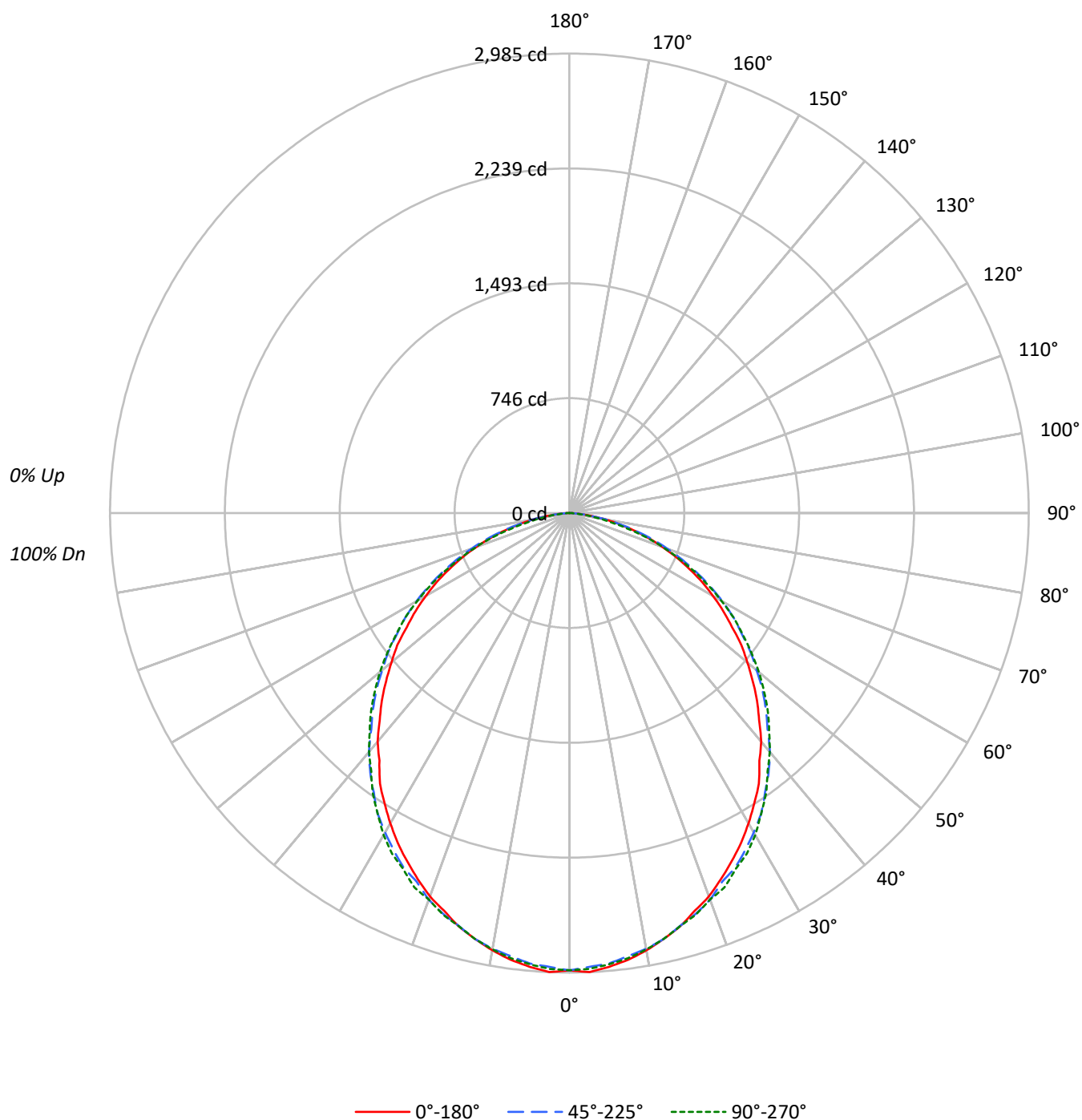
Lumens per Lamp: N/A
Luminaire Lumens: 7629.3 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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				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°	7993	7993	7993
5°	7993	7936	7949
10°	7881	7854	7863
15°	7746	7736	7741
20°	7590	7655	7650
25°	7411	7556	7580
30°	7231	7443	7504
35°	7053	7282	7314
40°	6811	7119	7114
45°	6564	6873	6940
50°	6316	6642	6731
55°	6049	6408	6446
60°	5795	6180	6135
65°	5491	5801	5687
70°	5060	5328	5085
75°	4475	4660	4069
80°	3598	3649	2844
85°	2356	2257	1655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.2	3.7
10°-20°	785.0	10.3
20°-30°	1168.8	15.3
30°-40°	1375.7	18.0
40°-50°	1379.3	18.1
50°-60°	1209.6	15.9
60°-70°	884.5	11.6
70°-80°	455.8	6.0
80°-90°	91.5	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°	2233.0	29.3
0°-40°	3608.7	47.3
0°-60°	6197.6	81.2
0°-90°	7629.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7629.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2970	2970	2970	2970	2970	
5°	2959	2939	2938	2957	2943	280
15°	2780	2785	2777	2795	2779	782
25°	2496	2507	2545	2580	2553	1150
35°	2147	2157	2217	2241	2226	1337
45°	1725	1733	1806	1829	1824	1329
55°	1289	1319	1366	1385	1374	1157
65°	862	882	911	908	893	853
75°	430	434	448	417	391	456
85°	76	75	73	58	54	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2970.3	2970.3	2970.3	2970.3	2970.3
2.5°	2984.9	2970.3	2950.8	2967.0	2963.8
5°	2958.9	2939.4	2937.8	2957.3	2942.6
7.5°	2926.4	2923.2	2903.7	2924.8	2916.7
10°	2884.2	2880.9	2874.4	2889.1	2877.7
12.5°	2833.8	2830.6	2833.8	2842.0	2833.8
15°	2780.3	2785.1	2777.0	2794.9	2778.6
17.5°	2708.8	2713.7	2729.9	2736.4	2734.8
20°	2650.3	2653.6	2673.1	2699.1	2671.4
22.5°	2574.0	2582.1	2591.9	2639.0	2632.5
25°	2496.1	2507.4	2544.8	2580.5	2552.9
27.5°	2414.9	2426.2	2471.7	2497.7	2494.4
30°	2327.2	2338.5	2395.4	2431.1	2414.9
32.5°	2236.2	2255.7	2317.4	2348.3	2317.4
35°	2146.9	2156.6	2216.7	2241.1	2226.5
37.5°	2028.3	2065.7	2125.8	2142.0	2116.0
40°	1939.0	1940.7	2026.7	2026.7	2025.1
42.5°	1823.7	1849.7	1906.6	1937.4	1921.2
45°	1724.7	1732.8	1805.9	1828.6	1823.7
47.5°	1615.9	1648.3	1701.9	1727.9	1714.9
50°	1508.7	1531.4	1586.6	1620.7	1607.7
52.5°	1409.6	1427.5	1484.3	1503.8	1490.8
55°	1289.4	1318.7	1365.8	1385.3	1373.9
57.5°	1185.5	1206.6	1265.1	1271.6	1265.1
60°	1076.7	1101.1	1148.2	1153.0	1140.0
62.5°	972.8	989.0	1031.2	1032.9	1018.2
65°	862.3	881.8	911.1	907.8	893.2
67.5°	753.5	766.5	794.1	782.8	766.5
70°	643.1	654.5	677.2	661.0	646.3
72.5°	535.9	544.0	563.5	539.2	521.3
75°	430.4	433.6	448.2	417.4	391.4
77.5°	326.4	329.7	337.8	306.9	277.7
80°	232.2	232.2	235.5	203.0	183.5
82.5°	146.2	146.2	144.5	120.2	108.8
85°	76.3	74.7	73.1	58.5	53.6
87.5°	27.6	27.6	22.7	21.1	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)