

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: P485957

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4HI-35-120-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: P485957
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-LD4-4HI-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

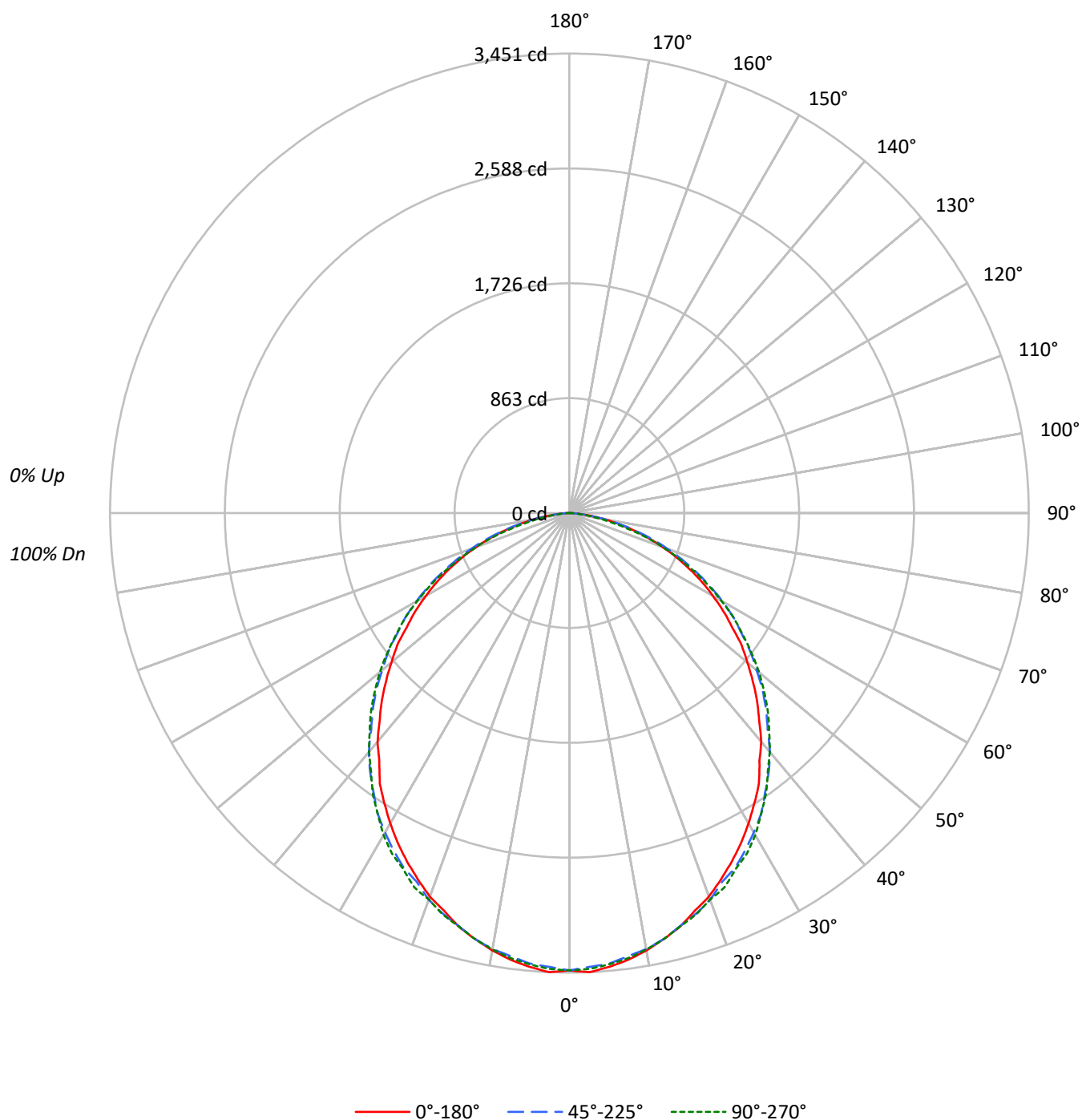
Lumens per Lamp: N/A
Luminaire Lumens: 8821.7 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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

TEST NUMBER: P485957

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-4HI-35-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P485957

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-4HI-35-120-EDD

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°	9242	9242	9242
5°	9242	9176	9191
10°	9113	9082	9092
15°	8956	8946	8951
20°	8776	8851	8846
25°	8570	8737	8765
30°	8361	8606	8676
35°	8155	8420	8457
40°	7876	8232	8226
45°	7589	7947	8025
50°	7303	7680	7783
55°	6995	7409	7453
60°	6701	7145	7094
65°	6349	6707	6576
70°	5851	6161	5880
75°	5174	5389	4705
80°	4161	4220	3288
85°	2726	2609	1914



TEST NUMBER: P485957

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-4HI-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.8	3.7
10°-20°	907.7	10.3
20°-30°	1351.4	15.3
30°-40°	1590.7	18.0
40°-50°	1594.9	18.1
50°-60°	1398.6	15.9
60°-70°	1022.7	11.6
70°-80°	527.1	6.0
80°-90°	105.7	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°	2582.0	29.3
0°-40°	4172.7	47.3
0°-60°	7166.2	81.2
0°-90°	8821.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8821.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3434	3434	3434	3434	3434	
5°	3421	3399	3397	3420	3403	324
15°	3215	3220	3211	3232	3213	905
25°	2886	2899	2942	2984	2952	1329
35°	2482	2494	2563	2591	2574	1546
45°	1994	2004	2088	2114	2109	1537
55°	1491	1525	1579	1602	1589	1338
65°	997	1020	1053	1050	1033	986
75°	498	501	518	483	452	527
85°	88	86	84	68	62	115
90°	0	0	0	0	0	



TEST NUMBER: P485957

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-4HI-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3434.5	3434.5	3434.5	3434.5	3434.5
2.5°	3451.4	3434.5	3412.0	3430.7	3427.0
5°	3421.3	3398.8	3396.9	3419.5	3402.6
7.5°	3383.8	3380.0	3357.5	3381.9	3372.5
10°	3335.0	3331.2	3323.7	3340.6	3327.5
12.5°	3276.8	3273.0	3276.8	3286.1	3276.8
15°	3214.8	3220.4	3211.0	3231.7	3212.9
17.5°	3132.2	3137.8	3156.6	3164.1	3162.2
20°	3064.6	3068.3	3090.8	3120.9	3089.0
22.5°	2976.3	2985.7	2997.0	3051.4	3043.9
25°	2886.2	2899.3	2942.5	2983.8	2951.9
27.5°	2792.3	2805.4	2858.0	2888.0	2884.3
30°	2690.9	2704.0	2769.7	2811.1	2792.3
32.5°	2585.7	2608.3	2679.6	2715.3	2679.6
35°	2482.4	2493.7	2563.2	2591.4	2574.5
37.5°	2345.4	2388.6	2458.0	2476.8	2446.8
40°	2242.1	2244.0	2343.5	2343.5	2341.6
42.5°	2108.8	2138.8	2204.5	2240.2	2221.4
45°	1994.2	2003.6	2088.1	2114.4	2108.8
47.5°	1868.4	1906.0	1967.9	1998.0	1983.0
50°	1744.5	1770.8	1834.6	1874.0	1859.0
52.5°	1629.9	1650.6	1716.3	1738.8	1723.8
55°	1491.0	1524.8	1579.2	1601.8	1588.6
57.5°	1370.8	1395.2	1462.8	1470.3	1462.8
60°	1245.0	1273.1	1327.6	1333.2	1318.2
62.5°	1124.8	1143.6	1192.4	1194.3	1177.4
65°	997.1	1019.6	1053.4	1049.7	1032.8
67.5°	871.3	886.3	918.2	905.1	886.3
70°	743.6	756.8	783.0	764.3	747.4
72.5°	619.7	629.1	651.6	623.4	602.8
75°	497.6	501.4	518.3	482.6	452.5
77.5°	377.4	381.2	390.6	354.9	321.1
80°	268.5	268.5	272.3	234.7	212.2
82.5°	169.0	169.0	167.1	139.0	125.8
85°	88.3	86.4	84.5	67.6	62.0
87.5°	31.9	31.9	26.3	24.4	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)