

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: P485992

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5HI-35-120-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: P485992
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-LD4-5HI-35-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

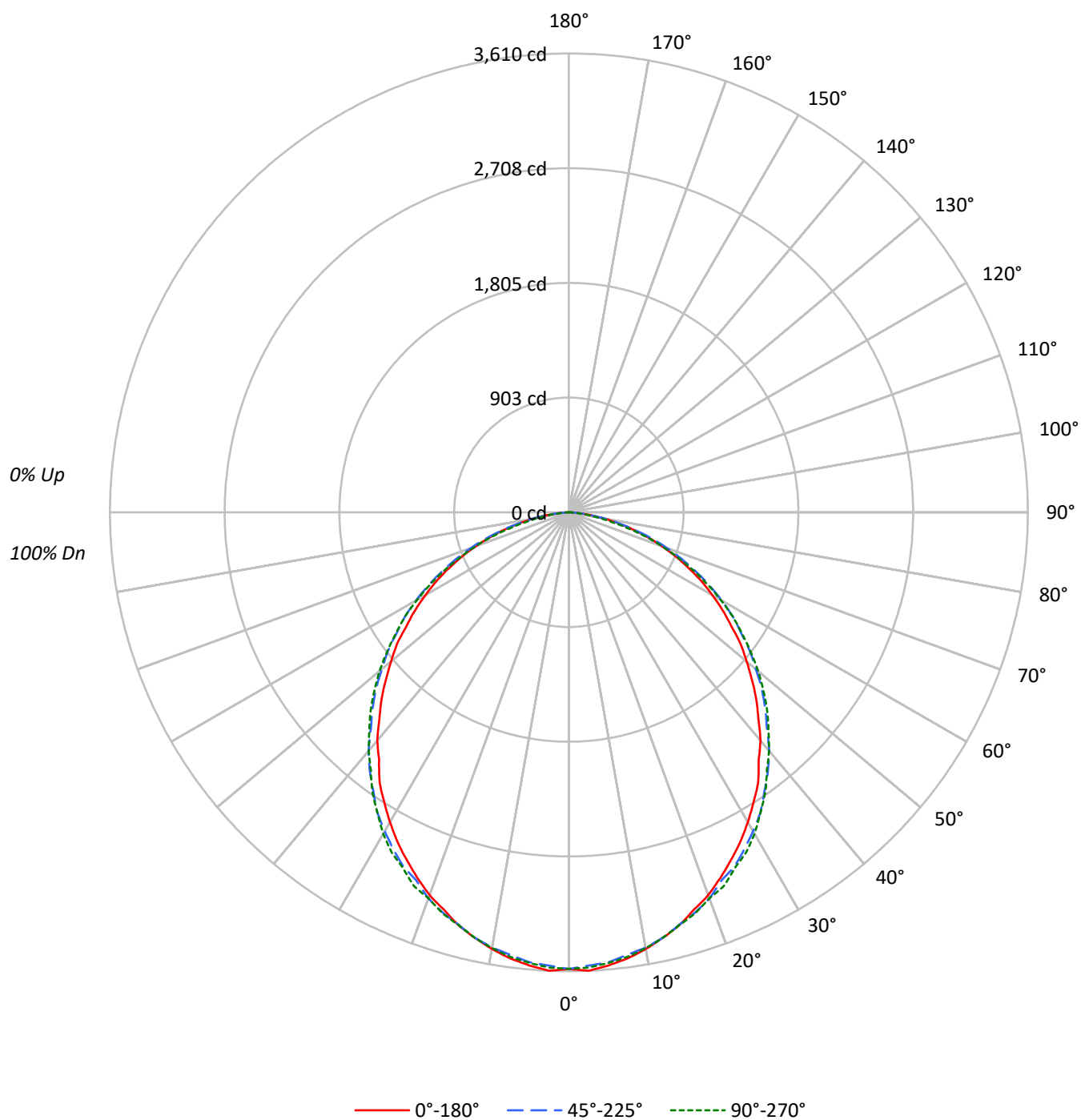
Lumens per Lamp: N/A
Luminaire Lumens: 9226.9 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
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: P485992

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5HI-35-120-EDD-90

Luminous Intensity Polar Plot



TEST NUMBER: P485992

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5HI-35-120-EDD-90

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	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9667	9667	9667
5°	9666	9598	9614
10°	9531	9499	9510
15°	9367	9356	9362
20°	9179	9258	9252
25°	8963	9138	9167
30°	8745	9002	9075
35°	8530	8807	8846
40°	8238	8610	8604
45°	7938	8311	8394
50°	7639	8033	8140
55°	7317	7750	7796
60°	7008	7473	7421
65°	6641	7016	6878
70°	6120	6444	6150
75°	5412	5636	4921
80°	4353	4413	3439
85°	2850	2729	2001



TEST NUMBER: P485992

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5HI-35-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.6	3.7
10°-20°	949.4	10.3
20°-30°	1413.5	15.3
30°-40°	1663.8	18.0
40°-50°	1668.2	18.1
50°-60°	1462.8	15.9
60°-70°	1069.7	11.6
70°-80°	551.3	6.0
80°-90°	110.6	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°	2700.6	29.3
0°-40°	4364.4	47.3
0°-60°	7495.4	81.2
0°-90°	9226.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9226.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3592	3592	3592	3592	3592	
5°	3578	3555	3553	3576	3559	339
15°	3362	3368	3358	3380	3360	946
25°	3019	3032	3078	3121	3088	1391
35°	2596	2608	2681	2710	2693	1617
45°	2086	2096	2184	2212	2206	1607
55°	1560	1595	1652	1675	1662	1400
65°	1043	1066	1102	1098	1080	1032
75°	520	524	542	505	473	552
85°	92	90	88	71	65	120
90°	0	0	0	0	0	



TEST NUMBER: P485992

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5HI-35-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3592.2	3592.2	3592.2	3592.2	3592.2
2.5°	3609.9	3592.2	3568.7	3588.3	3584.4
5°	3578.5	3554.9	3553.0	3576.5	3558.9
7.5°	3539.2	3535.3	3511.7	3537.2	3527.4
10°	3488.1	3484.2	3476.4	3494.0	3480.3
12.5°	3427.3	3423.3	3427.3	3437.1	3427.3
15°	3362.4	3368.3	3358.5	3380.1	3360.5
17.5°	3276.0	3281.9	3301.6	3309.4	3307.5
20°	3205.3	3209.3	3232.8	3264.2	3230.9
22.5°	3113.0	3122.8	3134.6	3191.6	3183.7
25°	3018.7	3032.5	3077.7	3120.9	3087.5
27.5°	2920.5	2934.3	2989.3	3020.7	3016.8
30°	2814.5	2828.2	2897.0	2940.2	2920.5
32.5°	2704.5	2728.1	2802.7	2840.0	2802.7
35°	2596.5	2608.3	2680.9	2710.4	2692.7
37.5°	2453.1	2498.3	2570.9	2590.6	2559.2
40°	2345.1	2347.0	2451.1	2451.1	2449.2
42.5°	2205.6	2237.0	2305.8	2343.1	2323.5
45°	2085.8	2095.6	2184.0	2211.5	2205.6
47.5°	1954.2	1993.5	2058.3	2089.7	2074.0
50°	1824.6	1852.1	1918.9	1960.1	1944.4
52.5°	1704.8	1726.4	1795.1	1818.7	1803.0
55°	1559.5	1594.8	1651.8	1675.3	1661.6
57.5°	1433.8	1459.3	1530.0	1537.8	1530.0
60°	1302.2	1331.6	1388.6	1394.5	1378.8
62.5°	1176.5	1196.1	1247.2	1249.1	1231.5
65°	1042.9	1066.5	1101.8	1097.9	1080.2
67.5°	911.3	927.0	960.4	946.7	927.0
70°	777.8	791.5	819.0	799.4	781.7
72.5°	648.1	658.0	681.5	652.1	630.5
75°	520.5	524.4	542.1	504.8	473.3
77.5°	394.8	398.7	408.5	371.2	335.9
80°	280.9	280.9	284.8	245.5	221.9
82.5°	176.8	176.8	174.8	145.3	131.6
85°	92.3	90.3	88.4	70.7	64.8
87.5°	33.4	33.4	27.5	25.5	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)