

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: P486017

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5STD-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: P486017
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-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

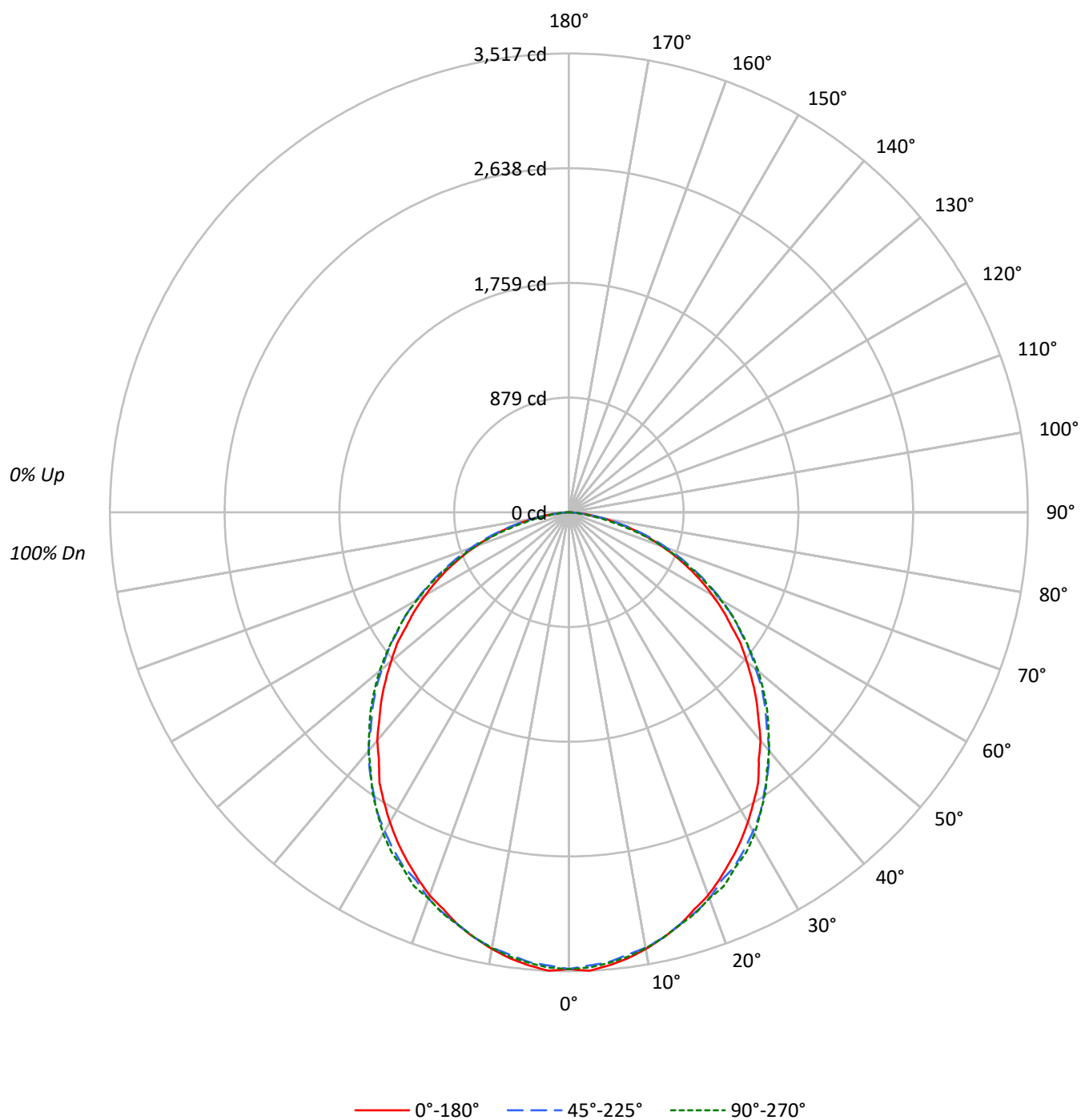
Lumens per Lamp: N/A
Luminaire Lumens: 8990.2 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P486017

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

Luminous Intensity Polar Plot





TEST NUMBER: P486017

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5STD-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°	9419	9419	9419
5°	9418	9351	9367
10°	9287	9255	9266
15°	9127	9117	9122
20°	8944	9020	9015
25°	8733	8904	8932
30°	8521	8771	8842
35°	8311	8581	8619
40°	8026	8389	8383
45°	7734	8098	8178
50°	7443	7827	7931
55°	7128	7551	7596
60°	6829	7282	7230
65°	6471	6836	6702
70°	5962	6279	5992
75°	5272	5492	4795
80°	4241	4300	3350
85°	2776	2658	1951



TEST NUMBER: P486017

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.0	3.7
10°-20°	925.1	10.3
20°-30°	1377.3	15.3
30°-40°	1621.1	18.0
40°-50°	1625.4	18.1
50°-60°	1425.3	15.9
60°-70°	1042.2	11.6
70°-80°	537.1	6.0
80°-90°	107.8	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°	2631.3	29.3
0°-40°	4252.4	47.3
0°-60°	7303.1	81.2
0°-90°	8990.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8990.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3500	3500	3500	3500	3500	
5°	3487	3464	3462	3485	3468	330
15°	3276	3282	3272	3293	3274	922
25°	2941	2955	2999	3041	3008	1355
35°	2530	2541	2612	2641	2624	1576
45°	2032	2042	2128	2155	2149	1566
55°	1519	1554	1609	1632	1619	1364
65°	1016	1039	1074	1070	1052	1005
75°	507	511	528	492	461	537
85°	90	88	86	69	63	117
90°	0	0	0	0	0	



TEST NUMBER: P486017

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3500.1	3500.1	3500.1	3500.1	3500.1
2.5°	3517.3	3500.1	3477.1	3496.3	3492.4
5°	3486.7	3463.7	3461.8	3484.8	3467.6
7.5°	3448.4	3444.6	3421.6	3446.5	3436.9
10°	3398.7	3394.8	3387.2	3404.4	3391.0
12.5°	3339.3	3335.5	3339.3	3348.9	3339.3
15°	3276.2	3281.9	3272.4	3293.4	3274.3
17.5°	3192.0	3197.7	3216.9	3224.5	3222.6
20°	3123.1	3126.9	3149.9	3180.5	3148.0
22.5°	3033.2	3042.7	3054.2	3109.7	3102.0
25°	2941.3	2954.7	2998.7	3040.8	3008.3
27.5°	2845.6	2859.0	2912.6	2943.2	2939.4
30°	2742.3	2755.7	2822.7	2864.8	2845.6
32.5°	2635.1	2658.1	2730.8	2767.2	2730.8
35°	2529.9	2541.3	2612.1	2640.9	2623.6
37.5°	2390.2	2434.2	2505.0	2524.1	2493.5
40°	2284.9	2286.8	2388.2	2388.2	2386.3
42.5°	2149.0	2179.7	2246.6	2283.0	2263.9
45°	2032.3	2041.9	2128.0	2154.8	2149.0
47.5°	1904.1	1942.4	2005.5	2036.1	2020.8
50°	1777.8	1804.6	1869.6	1909.8	1894.5
52.5°	1661.1	1682.1	1749.1	1772.1	1756.7
55°	1519.4	1553.9	1609.4	1632.4	1619.0
57.5°	1397.0	1421.9	1490.7	1498.4	1490.7
60°	1268.8	1297.5	1353.0	1358.7	1343.4
62.5°	1146.3	1165.4	1215.2	1217.1	1199.9
65°	1016.2	1039.1	1073.6	1069.7	1052.5
67.5°	887.9	903.2	935.8	922.4	903.2
70°	757.8	771.2	798.0	778.9	761.6
72.5°	631.5	641.1	664.0	635.3	614.3
75°	507.1	510.9	528.2	491.8	461.2
77.5°	384.6	388.5	398.0	361.7	327.2
80°	273.7	273.7	277.5	239.2	216.2
82.5°	172.2	172.2	170.3	141.6	128.2
85°	89.9	88.0	86.1	68.9	63.2
87.5°	32.5	32.5	26.8	24.9	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)