

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: P486053

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6STD-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: P486053
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-LD4-6STD-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

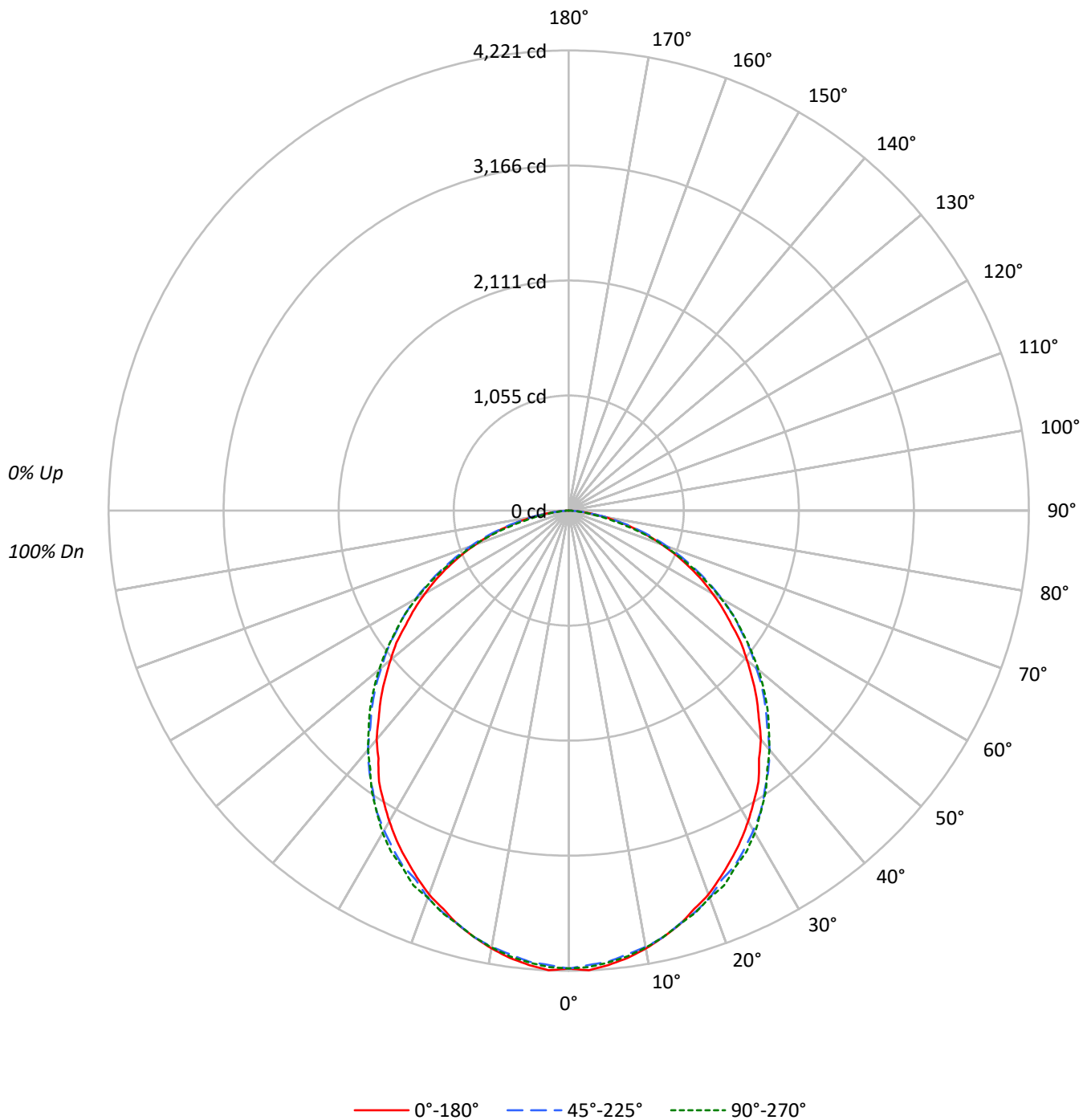
Lumens per Lamp: N/A
Luminaire Lumens: 10788.2 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	11302	11302	11302
5°	11302	11222	11240
10°	11144	11106	11119
15°	10953	10940	10946
20°	10732	10824	10818
25°	10480	10684	10718
30°	10225	10525	10610
35°	9973	10297	10342
40°	9632	10067	10059
45°	9281	9718	9814
50°	8931	9393	9517
55°	8554	9061	9114
60°	8194	8738	8676
65°	7764	8203	8042
70°	7155	7534	7191
75°	6327	6590	5754
80°	5089	5160	4021
85°	3331	3189	2340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.8	3.7
10°-20°	1110.1	10.3
20°-30°	1652.7	15.3
30°-40°	1945.3	18.0
40°-50°	1950.4	18.1
50°-60°	1710.4	15.9
60°-70°	1250.7	11.6
70°-80°	644.5	6.0
80°-90°	129.3	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°	3157.6	29.3
0°-40°	5102.9	47.3
0°-60°	8763.7	81.2
0°-90°	10788.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10788.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4200	4200	4200	4200	4200	
5°	4184	4156	4154	4182	4161	396
15°	3931	3938	3927	3952	3929	1106
25°	3530	3546	3598	3649	3610	1626
35°	3036	3050	3135	3169	3148	1891
45°	2439	2450	2554	2586	2579	1879
55°	1823	1865	1931	1959	1943	1637
65°	1219	1247	1288	1284	1263	1206
75°	608	613	634	590	553	645
85°	108	106	103	83	76	141
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4200.1	4200.1	4200.1	4200.1	4200.1
2.5°	4220.8	4200.1	4172.5	4195.5	4190.9
5°	4184.0	4156.5	4154.2	4181.7	4161.0
7.5°	4138.1	4133.5	4105.9	4135.8	4124.3
10°	4078.4	4073.8	4064.6	4085.3	4069.2
12.5°	4007.2	4002.6	4007.2	4018.7	4007.2
15°	3931.4	3938.3	3926.8	3952.1	3929.1
17.5°	3830.4	3837.3	3860.2	3869.4	3867.1
20°	3747.7	3752.3	3779.8	3816.6	3777.6
22.5°	3639.8	3651.3	3665.0	3731.6	3722.4
25°	3529.5	3545.6	3598.4	3649.0	3609.9
27.5°	3414.7	3430.8	3495.1	3531.8	3527.2
30°	3290.7	3306.8	3387.2	3437.7	3414.7
32.5°	3162.1	3189.7	3276.9	3320.6	3276.9
35°	3035.8	3049.6	3134.6	3169.0	3148.3
37.5°	2868.2	2921.0	3006.0	3028.9	2992.2
40°	2741.9	2744.2	2865.9	2865.9	2863.6
42.5°	2578.8	2615.6	2696.0	2739.6	2716.6
45°	2438.8	2450.2	2553.6	2585.7	2578.8
47.5°	2284.9	2330.8	2406.6	2443.4	2425.0
50°	2133.3	2165.5	2243.6	2291.8	2273.4
52.5°	1993.3	2018.5	2098.9	2126.5	2108.1
55°	1823.3	1864.7	1931.3	1958.8	1942.7
57.5°	1676.4	1706.2	1788.9	1798.1	1788.9
60°	1522.5	1556.9	1623.5	1630.4	1612.1
62.5°	1375.5	1398.5	1458.2	1460.5	1439.8
65°	1219.4	1246.9	1288.3	1283.7	1263.0
67.5°	1065.5	1083.9	1122.9	1106.9	1083.9
70°	909.4	925.4	957.6	934.6	914.0
72.5°	757.8	769.3	796.8	762.4	737.1
75°	608.5	613.1	633.8	590.2	553.4
77.5°	461.6	466.2	477.6	434.0	392.7
80°	328.4	328.4	333.0	287.0	259.5
82.5°	206.7	206.7	204.4	169.9	153.9
85°	107.9	105.6	103.3	82.7	75.8
87.5°	39.0	39.0	32.1	29.9	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)