

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: P487240

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3STD-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: P487240
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-24-4-INS-A125-LD4-3STD-35-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

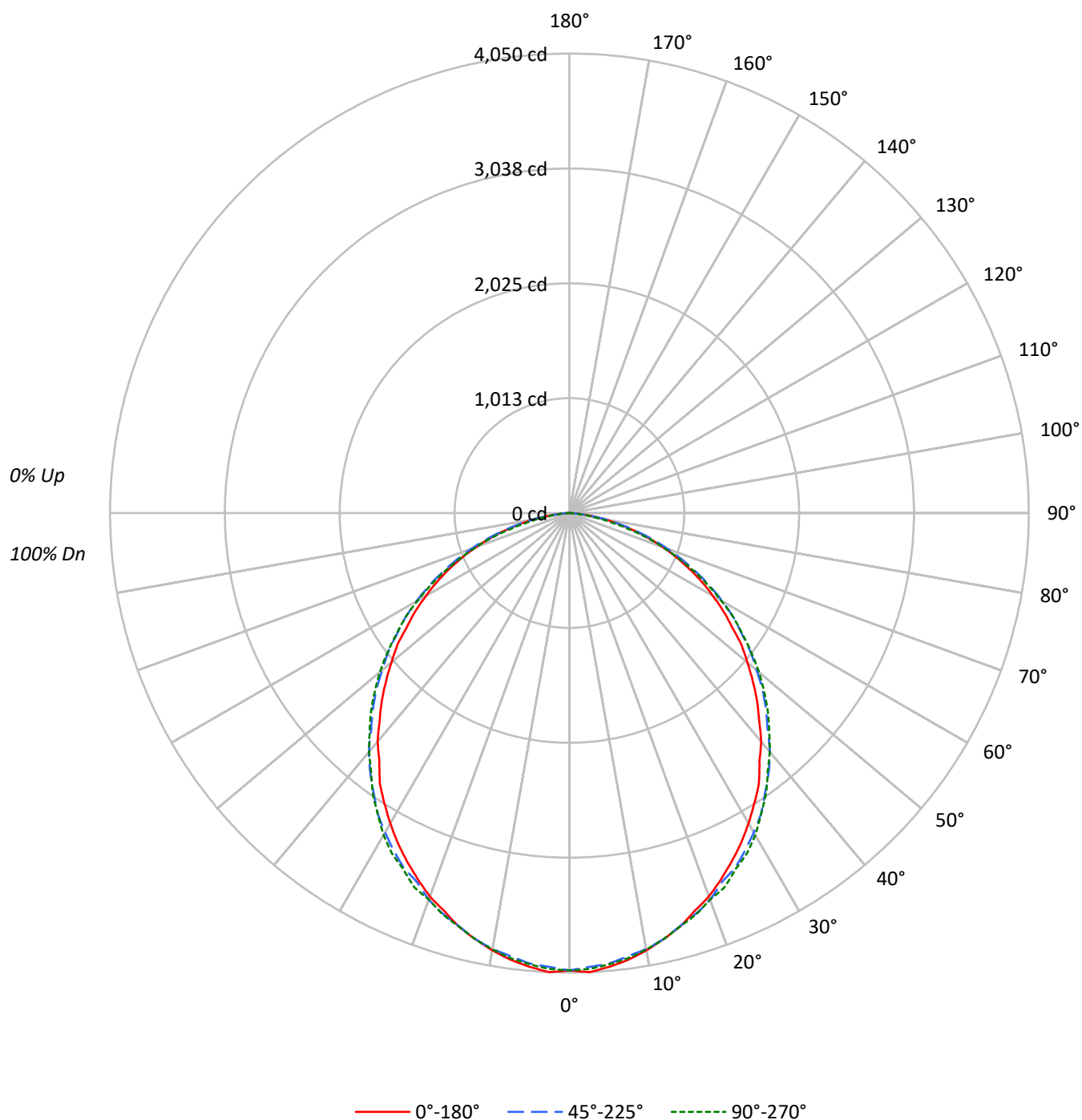
Lumens per Lamp: N/A
Luminaire Lumens: 10352.7 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5423	5423	5423
5°	5423	5384	5393
10°	5347	5329	5335
15°	5255	5249	5252
20°	5149	5194	5191
25°	5028	5127	5143
30°	4906	5050	5091
35°	4785	4941	4963
40°	4621	4830	4827
45°	4453	4663	4709
50°	4285	4507	4567
55°	4104	4347	4373
60°	3932	4193	4163
65°	3726	3936	3859
70°	3433	3615	3450
75°	3036	3162	2761
80°	2442	2476	1929
85°	1599	1531	1122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.8	3.7
10°-20°	1065.3	10.3
20°-30°	1586.0	15.3
30°-40°	1866.8	18.0
40°-50°	1871.7	18.1
50°-60°	1641.3	15.9
60°-70°	1200.2	11.6
70°-80°	618.5	6.0
80°-90°	124.1	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°	3030.1	29.3
0°-40°	4896.9	47.3
0°-60°	8409.9	81.2
0°-90°	10352.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10352.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4030	4030	4030	4030	4030	
5°	4015	3989	3986	4013	3993	380
15°	3773	3779	3768	3792	3770	1062
25°	3387	3402	3453	3502	3464	1560
35°	2913	2926	3008	3041	3021	1814
45°	2340	2351	2450	2481	2475	1804
55°	1750	1789	1853	1880	1864	1571
65°	1170	1197	1236	1232	1212	1158
75°	584	588	608	566	531	619
85°	104	101	99	79	73	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4030.5	4030.5	4030.5	4030.5	4030.5
2.5°	4050.4	4030.5	4004.1	4026.1	4021.7
5°	4015.1	3988.7	3986.5	4012.9	3993.1
7.5°	3971.0	3966.6	3940.2	3968.8	3957.8
10°	3913.7	3909.3	3900.5	3920.4	3904.9
12.5°	3845.4	3841.0	3845.4	3856.4	3845.4
15°	3772.7	3779.3	3768.3	3792.5	3770.5
17.5°	3675.7	3682.4	3704.4	3713.2	3711.0
20°	3596.4	3600.8	3627.3	3662.5	3625.1
22.5°	3492.8	3503.9	3517.1	3581.0	3572.2
25°	3387.1	3402.5	3453.2	3501.7	3464.2
27.5°	3276.9	3292.3	3354.0	3389.3	3384.9
30°	3157.9	3173.3	3250.4	3298.9	3276.9
32.5°	3034.5	3060.9	3144.7	3186.5	3144.7
35°	2913.3	2926.5	3008.0	3041.1	3021.3
37.5°	2752.4	2803.1	2884.6	2906.7	2871.4
40°	2631.2	2633.4	2750.2	2750.2	2748.0
42.5°	2474.7	2510.0	2587.1	2629.0	2607.0
45°	2340.3	2351.3	2450.5	2481.3	2474.7
47.5°	2192.7	2236.7	2309.5	2344.7	2327.1
50°	2047.2	2078.1	2153.0	2199.3	2181.6
52.5°	1912.8	1937.0	2014.2	2040.6	2023.0
55°	1749.7	1789.4	1853.3	1879.7	1864.3
57.5°	1608.7	1637.3	1716.7	1725.5	1716.7
60°	1461.0	1494.1	1558.0	1564.6	1547.0
62.5°	1320.0	1342.0	1399.3	1401.5	1381.7
65°	1170.2	1196.6	1236.3	1231.9	1212.0
67.5°	1022.5	1040.1	1077.6	1062.2	1040.1
70°	872.7	888.1	918.9	896.9	877.1
72.5°	727.2	738.2	764.7	731.6	707.4
75°	584.0	588.4	608.2	566.3	531.1
77.5°	442.9	447.3	458.4	416.5	376.8
80°	315.1	315.1	319.5	275.5	249.0
82.5°	198.3	198.3	196.1	163.1	147.6
85°	103.6	101.4	99.2	79.3	72.7
87.5°	37.5	37.5	30.9	28.6	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)