

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: P487267

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4LO-40-120-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: P487267
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-LD4-4LO-40-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

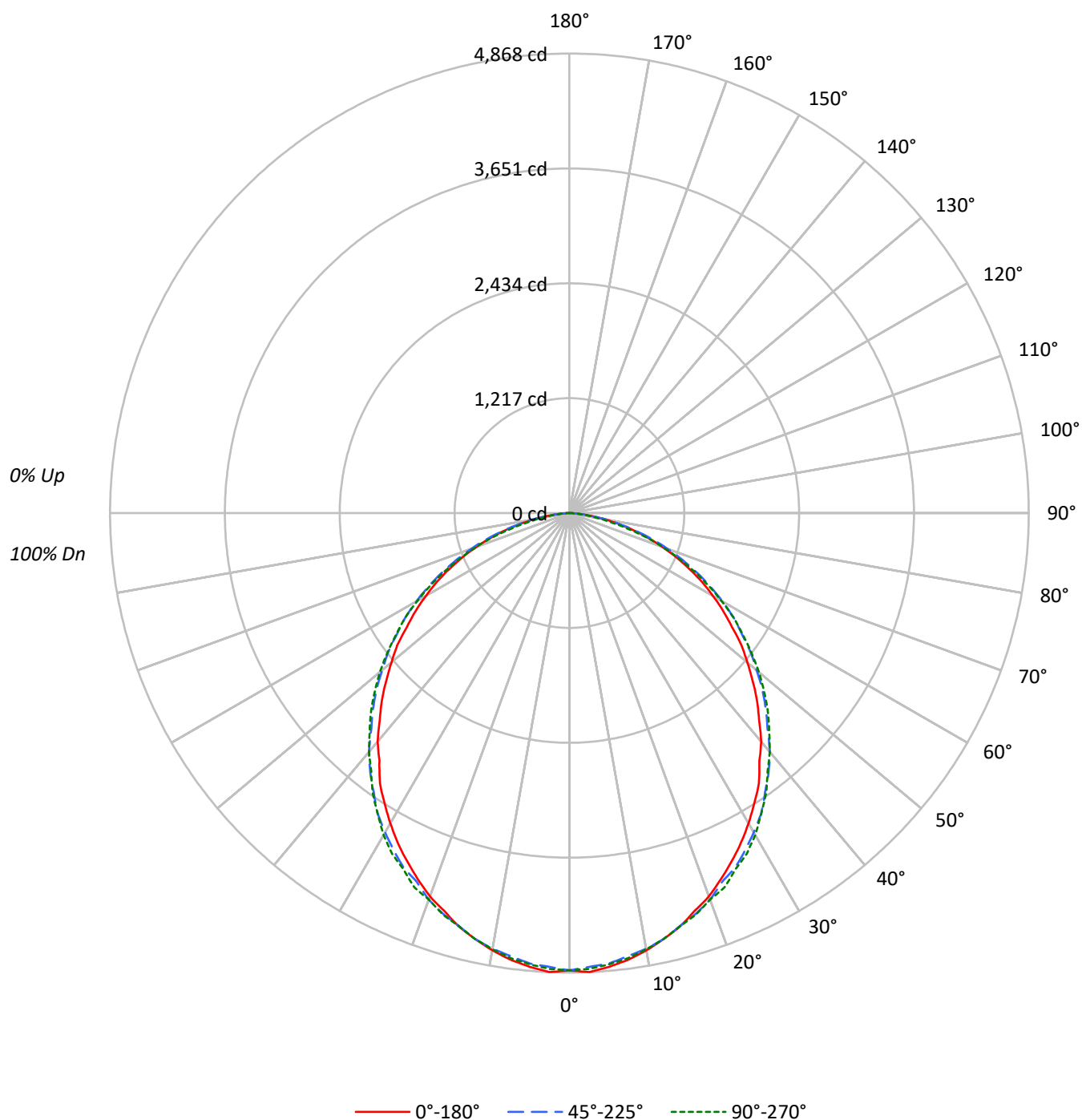
Lumens per Lamp: N/A
Luminaire Lumens: 12441.8 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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°	6517	6517	6517
5°	6517	6471	6481
10°	6426	6404	6412
15°	6316	6308	6312
20°	6189	6242	6238
25°	6043	6161	6181
30°	5896	6069	6118
35°	5751	5938	5964
40°	5554	5805	5801
45°	5352	5604	5659
50°	5150	5416	5488
55°	4933	5225	5256
60°	4725	5039	5003
65°	4477	4730	4637
70°	4126	4345	4147
75°	3648	3800	3318
80°	2934	2975	2319
85°	1922	1840	1349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.3	3.7
10°-20°	1280.2	10.3
20°-30°	1906.0	15.3
30°-40°	2243.5	18.0
40°-50°	2249.4	18.1
50°-60°	1972.5	15.9
60°-70°	1442.4	11.6
70°-80°	743.3	6.0
80°-90°	149.1	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°	3641.5	29.3
0°-40°	5885.0	47.3
0°-60°	10107.0	81.2
0°-90°	12441.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12441.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4844	4844	4844	4844	4844	
5°	4825	4794	4791	4823	4799	457
15°	4534	4542	4529	4558	4531	1276
25°	4070	4089	4150	4208	4163	1875
35°	3501	3517	3615	3655	3631	2180
45°	2813	2826	2945	2982	2974	2168
55°	2103	2150	2227	2259	2240	1888
65°	1406	1438	1486	1480	1457	1391
75°	702	707	731	681	638	744
85°	124	122	119	95	87	162
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4843.9	4843.9	4843.9	4843.9	4843.9
2.5°	4867.7	4843.9	4812.1	4838.6	4833.3
5°	4825.3	4793.6	4790.9	4822.7	4798.8
7.5°	4772.4	4767.1	4735.3	4769.7	4756.5
10°	4703.5	4698.2	4687.6	4711.5	4692.9
12.5°	4621.4	4616.1	4621.4	4634.7	4621.4
15°	4534.0	4542.0	4528.7	4557.8	4531.4
17.5°	4417.5	4425.4	4451.9	4462.5	4459.9
20°	4322.1	4327.4	4359.2	4401.6	4356.6
22.5°	4197.7	4210.9	4226.8	4303.6	4293.0
25°	4070.5	4089.1	4150.0	4208.3	4163.2
27.5°	3938.1	3956.7	4030.8	4073.2	4067.9
30°	3795.1	3813.7	3906.3	3964.6	3938.1
32.5°	3646.8	3678.6	3779.2	3829.5	3779.2
35°	3501.1	3517.0	3615.0	3654.8	3630.9
37.5°	3307.8	3368.7	3466.7	3493.2	3450.8
40°	3162.2	3164.8	3305.2	3305.2	3302.5
42.5°	2974.1	3016.5	3109.2	3159.5	3133.0
45°	2812.6	2825.8	2945.0	2982.1	2974.1
47.5°	2635.1	2688.1	2775.5	2817.9	2796.7
50°	2460.3	2497.4	2587.5	2643.1	2621.9
52.5°	2298.8	2327.9	2420.6	2452.4	2431.2
55°	2102.8	2150.5	2227.3	2259.1	2240.5
57.5°	1933.3	1967.7	2063.1	2073.7	2063.1
60°	1755.9	1795.6	1872.4	1880.3	1859.2
62.5°	1586.4	1612.9	1681.7	1684.4	1660.5
65°	1406.3	1438.1	1485.7	1480.4	1456.6
67.5°	1228.8	1250.0	1295.1	1276.5	1250.0
70°	1048.8	1067.3	1104.4	1077.9	1054.1
72.5°	874.0	887.2	919.0	879.3	850.1
75°	701.8	707.1	731.0	680.6	638.3
77.5°	532.3	537.6	550.9	500.5	452.9
80°	378.7	378.7	384.0	331.0	299.3
82.5°	238.4	238.4	235.7	196.0	177.4
85°	124.5	121.8	119.2	95.3	87.4
87.5°	45.0	45.0	37.1	34.4	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)