

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: P487273

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4STD-27-120-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: P487273
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-LD4-4STD-27-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

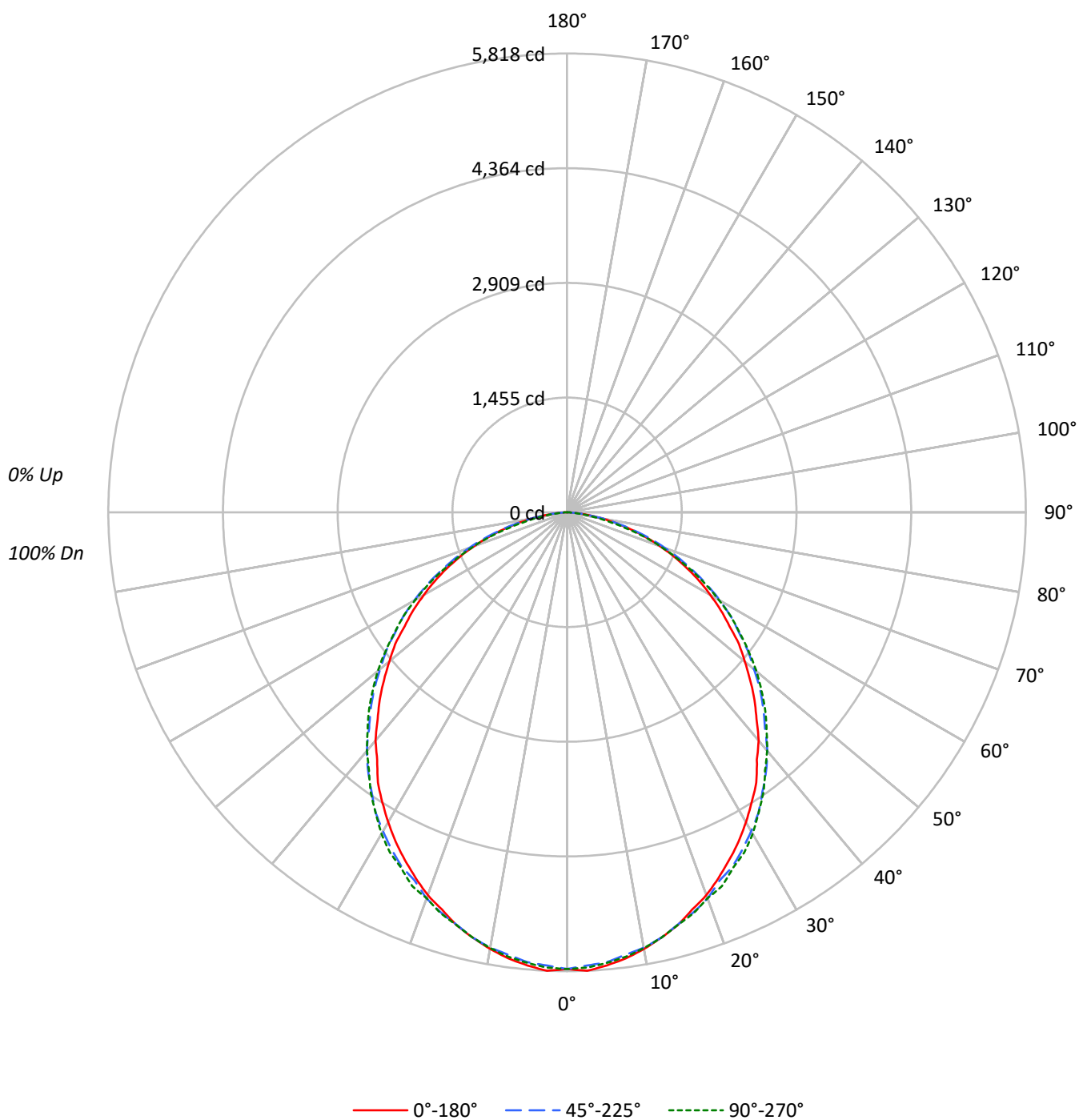
Lumens per Lamp: N/A
Luminaire Lumens: 14871.9 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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

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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°	7790	7790	7790
5°	7790	7735	7747
10°	7681	7655	7664
15°	7549	7540	7545
20°	7397	7461	7456
25°	7223	7364	7388
30°	7048	7254	7313
35°	6874	7098	7129
40°	6639	6939	6934
45°	6397	6698	6764
50°	6156	6474	6560
55°	5896	6245	6282
60°	5648	6023	5980
65°	5352	5654	5543
70°	4932	5193	4956
75°	4361	4542	3966
80°	3508	3556	2772
85°	2297	2200	1613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.2	3.7
10°-20°	1530.3	10.3
20°-30°	2278.3	15.3
30°-40°	2681.7	18.0
40°-50°	2688.7	18.1
50°-60°	2357.8	15.9
60°-70°	1724.1	11.6
70°-80°	888.5	6.0
80°-90°	178.3	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°	4352.8	29.3
0°-40°	7034.5	47.3
0°-60°	12081.0	81.2
0°-90°	14871.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14871.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5790	5790	5790	5790	5790	
5°	5768	5730	5727	5765	5736	546
15°	5420	5429	5413	5448	5416	1525
25°	4866	4888	4961	5030	4976	2241
35°	4185	4204	4321	4369	4340	2606
45°	3362	3378	3520	3564	3555	2591
55°	2514	2570	2662	2700	2678	2256
65°	1681	1719	1776	1770	1741	1663
75°	839	845	874	814	763	889
85°	149	146	142	114	104	194
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5790.0	5790.0	5790.0	5790.0	5790.0
2.5°	5818.5	5790.0	5752.0	5783.6	5777.3
5°	5767.8	5729.8	5726.7	5764.6	5736.1
7.5°	5704.5	5698.2	5660.2	5701.3	5685.5
10°	5622.2	5615.9	5603.2	5631.7	5609.5
12.5°	5524.0	5517.7	5524.0	5539.9	5524.0
15°	5419.6	5429.1	5413.3	5448.1	5416.4
17.5°	5280.3	5289.8	5321.4	5334.1	5330.9
20°	5166.3	5172.7	5210.7	5261.3	5207.5
22.5°	5017.5	5033.4	5052.4	5144.2	5131.5
25°	4865.6	4887.8	4960.6	5030.2	4976.4
27.5°	4707.3	4729.5	4818.1	4868.8	4862.4
30°	4536.4	4558.5	4669.3	4739.0	4707.3
32.5°	4359.1	4397.1	4517.4	4577.5	4517.4
35°	4185.0	4204.0	4321.1	4368.6	4340.1
37.5°	3953.9	4026.7	4143.8	4175.5	4124.8
40°	3779.8	3782.9	3950.7	3950.7	3947.6
42.5°	3555.0	3605.7	3716.5	3776.6	3745.0
45°	3361.9	3377.7	3520.2	3564.5	3555.0
47.5°	3149.8	3213.1	3317.6	3368.2	3342.9
50°	2940.9	2985.2	3092.8	3159.3	3134.0
52.5°	2747.8	2782.6	2893.4	2931.4	2906.1
55°	2513.5	2570.5	2662.3	2700.3	2678.1
57.5°	2310.9	2352.1	2466.0	2478.7	2466.0
60°	2098.8	2146.3	2238.1	2247.6	2222.3
62.5°	1896.2	1927.9	2010.2	2013.3	1984.9
65°	1681.0	1718.9	1775.9	1769.6	1741.1
67.5°	1468.9	1494.2	1548.0	1525.8	1494.2
70°	1253.6	1275.8	1320.1	1288.4	1259.9
72.5°	1044.7	1060.5	1098.5	1051.0	1016.2
75°	838.9	845.2	873.7	813.6	762.9
77.5°	636.3	642.6	658.5	598.3	541.3
80°	452.7	452.7	459.0	395.7	357.7
82.5°	284.9	284.9	281.7	234.3	212.1
85°	148.8	145.6	142.5	114.0	104.5
87.5°	53.8	53.8	44.3	41.2	44.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)