

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: P485167

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3HI-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: P485167
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-12-4-INS-A125-LD4-3HI-40-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

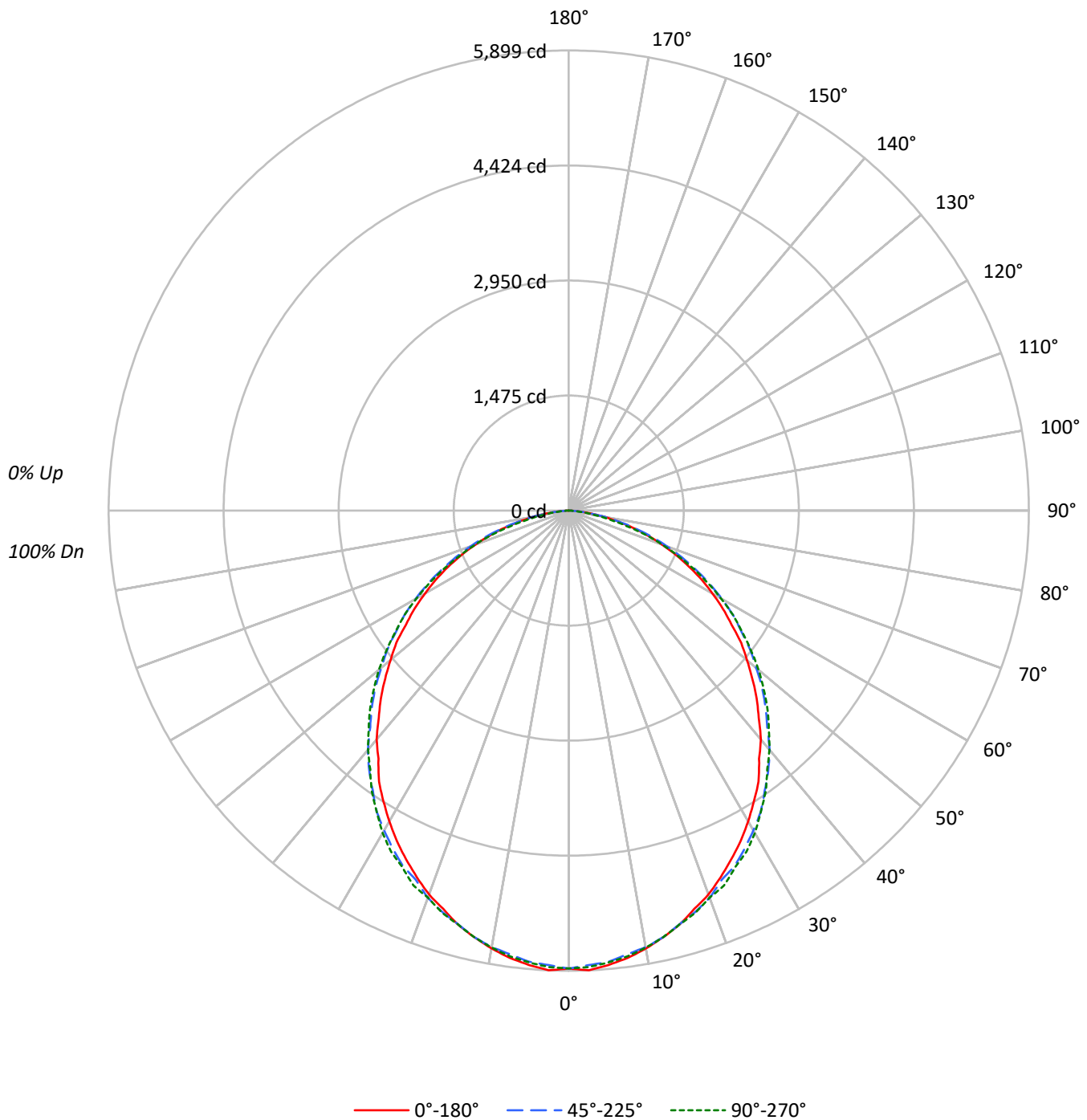
Lumens per Lamp: N/A
Luminaire Lumens: 15078.1 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	15797	15797	15797
5°	15796	15684	15710
10°	15575	15523	15540
15°	15308	15290	15299
20°	15000	15129	15119
25°	14647	14933	14981
30°	14291	14710	14830
35°	13939	14392	14455
40°	13462	14071	14059
45°	12971	13582	13717
50°	12483	13127	13302
55°	11956	12664	12739
60°	11452	12212	12126
65°	10852	11465	11240
70°	10000	10530	10050
75°	8843	9210	8042
80°	7113	7212	5621
85°	4656	4458	3270



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.8	3.7
10°-20°	1551.5	10.3
20°-30°	2309.9	15.3
30°-40°	2718.9	18.0
40°-50°	2726.0	18.1
50°-60°	2390.5	15.9
60°-70°	1748.0	11.6
70°-80°	900.8	6.0
80°-90°	180.7	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°	4413.2	29.3
0°-40°	7132.0	47.3
0°-60°	12248.5	81.2
0°-90°	15078.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15078.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5870	5870	5870	5870	5870	
5°	5848	5809	5806	5845	5816	554
15°	5495	5504	5488	5524	5492	1546
25°	4933	4956	5029	5100	5045	2272
35°	4243	4262	4381	4429	4400	2642
45°	3408	3425	3569	3614	3604	2627
55°	2548	2606	2699	2738	2715	2288
65°	1704	1743	1801	1794	1765	1686
75°	850	857	886	825	774	901
85°	151	148	144	116	106	197
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5870.2	5870.2	5870.2	5870.2	5870.2
2.5°	5899.1	5870.2	5831.7	5863.8	5857.4
5°	5847.8	5809.3	5806.1	5844.6	5815.7
7.5°	5783.6	5777.2	5738.7	5780.4	5764.3
10°	5700.1	5693.7	5680.9	5709.8	5687.3
12.5°	5600.6	5594.2	5600.6	5616.7	5600.6
15°	5494.7	5504.4	5488.3	5523.6	5491.5
17.5°	5353.5	5363.1	5395.2	5408.1	5404.9
20°	5238.0	5244.4	5282.9	5334.2	5279.7
22.5°	5087.1	5103.2	5122.4	5215.5	5202.7
25°	4933.1	4955.5	5029.3	5100.0	5045.4
27.5°	4772.6	4795.0	4884.9	4936.3	4929.8
30°	4599.3	4621.7	4734.1	4804.7	4772.6
32.5°	4419.5	4458.0	4580.0	4641.0	4580.0
35°	4243.0	4262.3	4381.0	4429.2	4400.3
37.5°	4008.7	4082.5	4201.3	4233.4	4182.0
40°	3832.2	3835.4	4005.5	4005.5	4002.3
42.5°	3604.3	3655.7	3768.0	3829.0	3796.9
45°	3408.5	3424.6	3569.0	3613.9	3604.3
47.5°	3193.5	3257.7	3363.6	3414.9	3389.3
50°	2981.7	3026.6	3135.7	3203.1	3177.4
52.5°	2785.9	2821.2	2933.5	2972.0	2946.4
55°	2548.4	2606.1	2699.2	2737.7	2715.3
57.5°	2343.0	2384.7	2500.2	2513.1	2500.2
60°	2127.9	2176.1	2269.1	2278.8	2253.1
62.5°	1922.5	1954.6	2038.1	2041.3	2012.4
65°	1704.3	1742.8	1800.6	1794.1	1765.2
67.5°	1489.2	1514.9	1569.5	1547.0	1514.9
70°	1271.0	1293.4	1338.4	1306.3	1277.4
72.5°	1059.1	1075.2	1113.7	1065.6	1030.3
75°	850.5	856.9	885.8	824.9	773.5
77.5°	645.1	651.5	667.6	606.6	548.8
80°	459.0	459.0	465.4	401.2	362.7
82.5°	288.9	288.9	285.6	237.5	215.0
85°	150.8	147.6	144.4	115.5	105.9
87.5°	54.6	54.6	44.9	41.7	44.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)