

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: P485168

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3HI-50-120-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: P485168
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-50-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

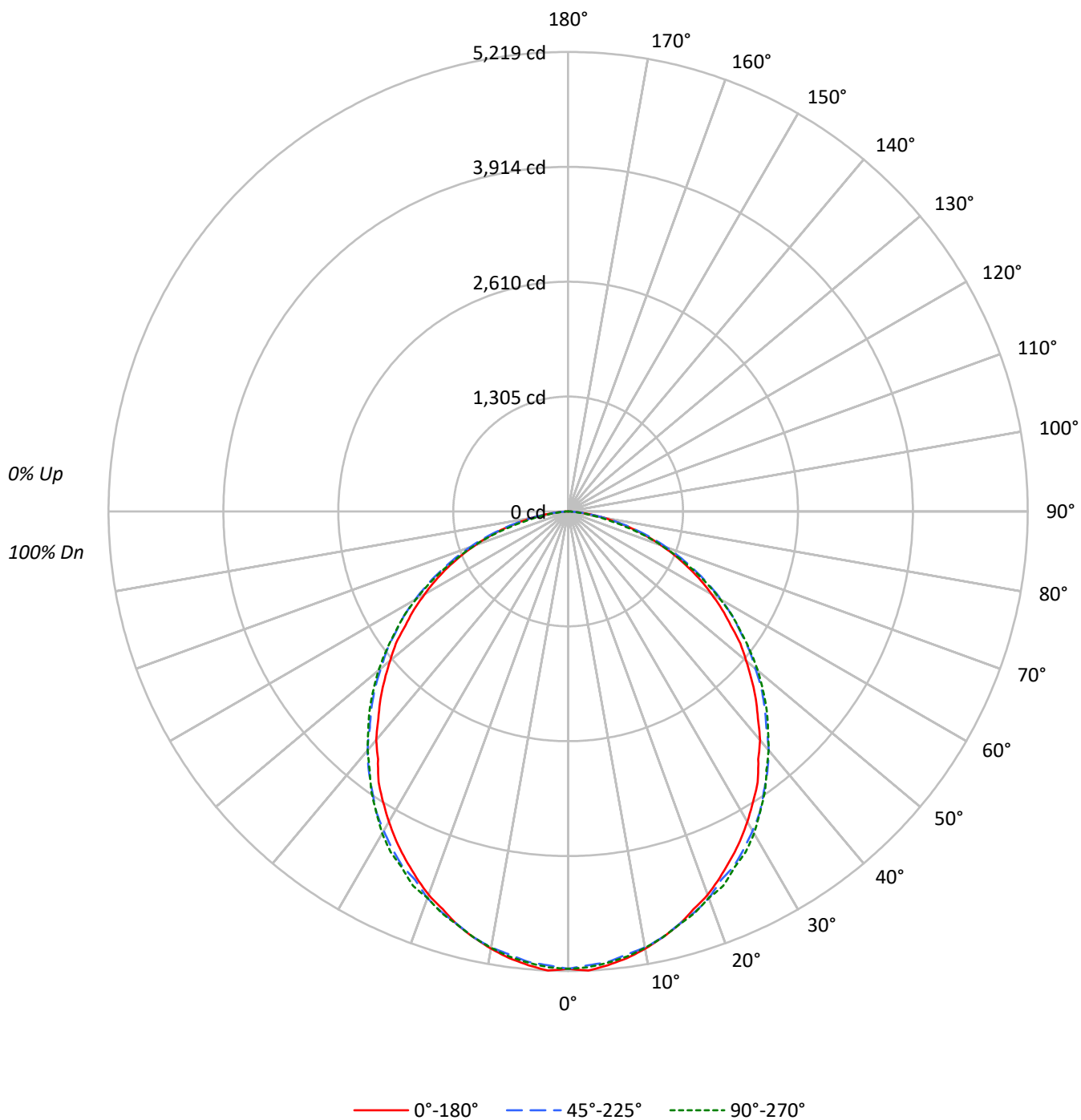
Lumens per Lamp: N/A
Luminaire Lumens: 13340.5 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					10
RW	70	50	30	10	70	50	30	10	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	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13976	13976	13976
5°	13976	13876	13899
10°	13781	13734	13750
15°	13544	13528	13536
20°	13271	13385	13377
25°	12959	13212	13254
30°	12644	13015	13121
35°	12332	12733	12789
40°	11911	12449	12439
45°	11477	12017	12136
50°	11044	11615	11769
55°	10578	11204	11271
60°	10133	10805	10728
65°	9601	10144	9945
70°	8847	9316	8892
75°	7824	8148	7116
80°	6293	6382	4973
85°	4122	3946	2893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.2	3.7
10°-20°	1372.7	10.3
20°-30°	2043.7	15.3
30°-40°	2405.5	18.0
40°-50°	2411.9	18.1
50°-60°	2115.0	15.9
60°-70°	1546.5	11.6
70°-80°	797.0	6.0
80°-90°	159.9	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°	3904.6	29.3
0°-40°	6310.1	47.3
0°-60°	10837.0	81.2
0°-90°	13340.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13340.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5194	5194	5194	5194	5194	
5°	5174	5140	5137	5171	5146	490
15°	4862	4870	4856	4887	4859	1368
25°	4365	4384	4450	4512	4464	2010
35°	3754	3771	3876	3919	3893	2338
45°	3016	3030	3158	3198	3189	2324
55°	2255	2306	2388	2422	2402	2024
65°	1508	1542	1593	1587	1562	1492
75°	752	758	784	730	684	797
85°	134	131	128	102	94	174
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5193.8	5193.8	5193.8	5193.8	5193.8
2.5°	5219.3	5193.8	5159.7	5188.1	5182.4
5°	5173.9	5139.8	5137.0	5171.0	5145.5
7.5°	5117.1	5111.4	5077.3	5114.2	5100.0
10°	5043.3	5037.6	5026.2	5051.8	5031.9
12.5°	4955.2	4949.5	4955.2	4969.4	4955.2
15°	4861.5	4870.0	4855.8	4887.1	4858.7
17.5°	4736.6	4745.1	4773.5	4784.8	4782.0
20°	4634.3	4640.0	4674.1	4719.5	4671.3
22.5°	4500.9	4515.1	4532.1	4614.5	4603.1
25°	4364.6	4384.4	4449.8	4512.2	4464.0
27.5°	4222.6	4242.5	4322.0	4367.4	4361.7
30°	4069.2	4089.1	4188.5	4251.0	4222.6
32.5°	3910.2	3944.3	4052.2	4106.2	4052.2
35°	3754.0	3771.1	3876.1	3918.7	3893.2
37.5°	3546.7	3612.1	3717.1	3745.5	3700.1
40°	3390.6	3393.4	3543.9	3543.9	3541.1
42.5°	3188.9	3234.4	3333.8	3387.7	3359.3
45°	3015.7	3029.9	3157.7	3197.5	3188.9
47.5°	2825.5	2882.3	2976.0	3021.4	2998.7
50°	2638.1	2677.8	2774.4	2834.0	2811.3
52.5°	2464.8	2496.1	2595.5	2629.5	2606.8
55°	2254.7	2305.8	2388.2	2422.2	2402.4
57.5°	2073.0	2109.9	2212.1	2223.5	2212.1
60°	1882.7	1925.3	2007.6	2016.2	1993.4
62.5°	1701.0	1729.4	1803.2	1806.0	1780.5
65°	1507.9	1541.9	1593.1	1587.4	1561.8
67.5°	1317.6	1340.3	1388.6	1368.7	1340.3
70°	1124.5	1144.4	1184.1	1155.7	1130.2
72.5°	937.1	951.3	985.4	942.8	911.5
75°	752.5	758.2	783.7	729.8	684.4
77.5°	570.8	576.5	590.7	536.7	485.6
80°	406.1	406.1	411.8	355.0	320.9
82.5°	255.6	255.6	252.7	210.1	190.3
85°	133.5	130.6	127.8	102.2	93.7
87.5°	48.3	48.3	39.8	36.9	39.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)