

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: P485165

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3HI-35-120-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: P485165
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-35-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

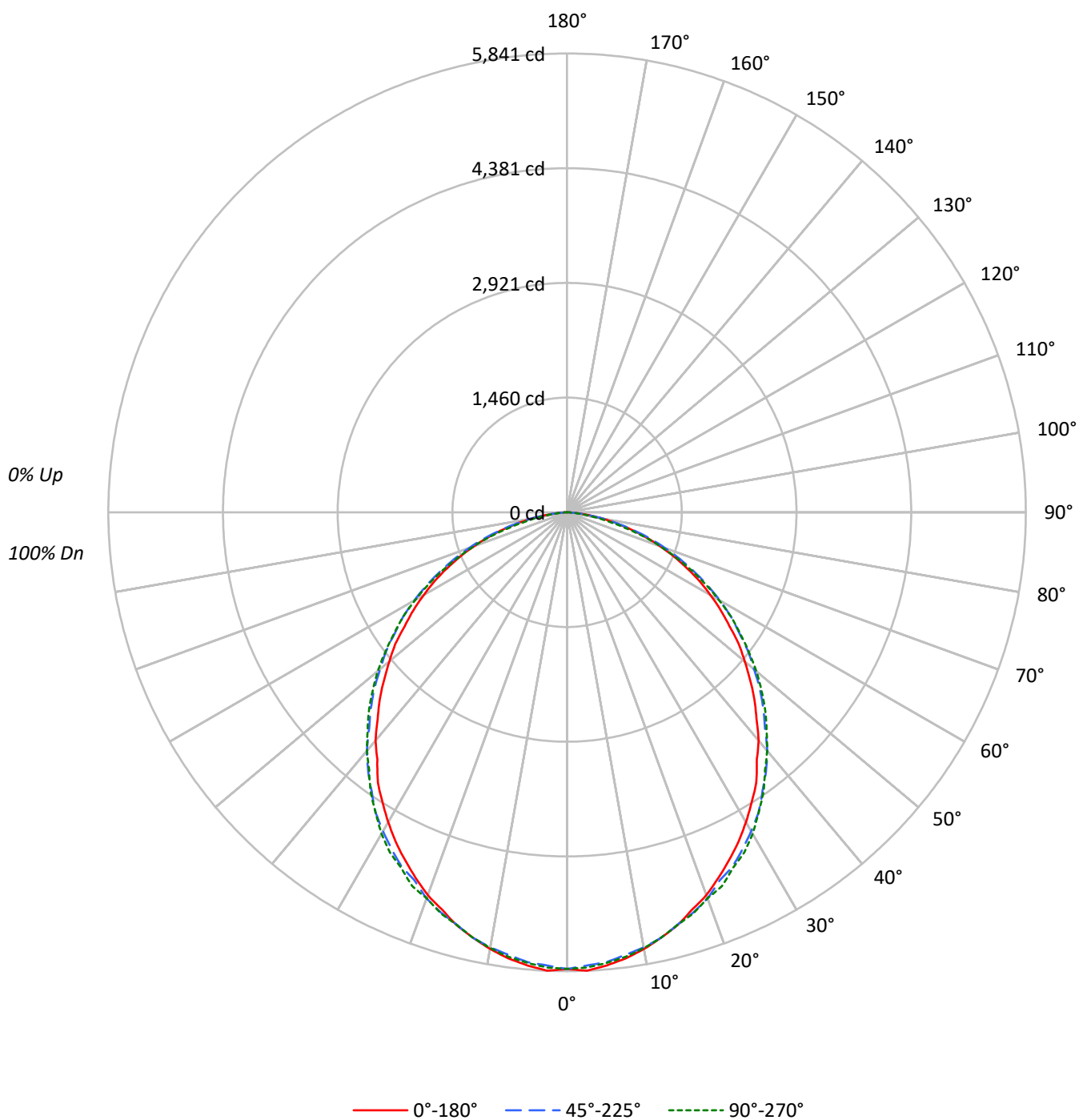
Lumens per Lamp: N/A
Luminaire Lumens: 14928.8 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					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°	15640	15640	15640
5°	15640	15528	15554
10°	15421	15369	15387
15°	15156	15139	15147
20°	14851	14979	14970
25°	14502	14785	14832
30°	14150	14564	14683
35°	13801	14249	14312
40°	13328	13931	13920
45°	12843	13448	13581
50°	12359	12998	13170
55°	11837	12538	12613
60°	11339	12092	12006
65°	10744	11351	11129
70°	9901	10426	9951
75°	8755	9119	7962
80°	7042	7141	5565
85°	4613	4415	3239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.3	3.7
10°-20°	1536.1	10.3
20°-30°	2287.0	15.3
30°-40°	2692.0	18.0
40°-50°	2699.0	18.1
50°-60°	2366.8	15.9
60°-70°	1730.7	11.6
70°-80°	891.9	6.0
80°-90°	179.0	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°	4369.5	29.3
0°-40°	7061.4	47.3
0°-60°	12127.3	81.2
0°-90°	14928.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14928.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5812	5812	5812	5812	5812	
5°	5790	5752	5749	5787	5758	548
15°	5440	5450	5434	5469	5437	1531
25°	4884	4906	4980	5050	4995	2250
35°	4201	4220	4338	4385	4357	2616
45°	3375	3391	3534	3578	3569	2601
55°	2523	2580	2672	2711	2688	2265
65°	1687	1726	1783	1776	1748	1669
75°	842	848	877	817	766	892
85°	149	146	143	114	105	195
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5812.1	5812.1	5812.1	5812.1	5812.1
2.5°	5840.7	5812.1	5774.0	5805.8	5799.4
5°	5789.9	5751.7	5748.6	5786.7	5758.1
7.5°	5726.3	5720.0	5681.8	5723.1	5707.3
10°	5643.7	5637.3	5624.6	5653.2	5631.0
12.5°	5545.2	5538.8	5545.2	5561.1	5545.2
15°	5440.3	5449.9	5434.0	5468.9	5437.1
17.5°	5300.5	5310.0	5341.8	5354.5	5351.3
20°	5186.1	5192.5	5230.6	5281.4	5227.4
22.5°	5036.7	5052.6	5071.7	5163.9	5151.1
25°	4884.2	4906.5	4979.5	5049.5	4995.4
27.5°	4725.3	4747.6	4836.5	4887.4	4881.0
30°	4553.7	4576.0	4687.2	4757.1	4725.3
32.5°	4375.8	4413.9	4534.7	4595.0	4534.7
35°	4201.0	4220.1	4337.6	4385.3	4356.7
37.5°	3969.0	4042.1	4159.7	4191.5	4140.6
40°	3794.2	3797.4	3965.8	3965.8	3962.7
42.5°	3568.6	3619.5	3730.7	3791.1	3759.3
45°	3374.8	3390.7	3533.7	3578.2	3568.6
47.5°	3161.9	3225.4	3330.3	3381.1	3355.7
50°	2952.1	2996.6	3104.7	3171.4	3146.0
52.5°	2758.3	2793.2	2904.5	2942.6	2917.2
55°	2523.1	2580.3	2672.5	2710.6	2688.4
57.5°	2319.8	2361.1	2475.5	2488.2	2475.5
60°	2106.9	2154.5	2246.7	2256.2	2230.8
62.5°	1903.5	1935.3	2017.9	2021.1	1992.5
65°	1687.4	1725.5	1782.7	1776.4	1747.8
67.5°	1474.5	1499.9	1553.9	1531.7	1499.9
70°	1258.4	1280.6	1325.1	1293.3	1264.7
72.5°	1048.7	1064.5	1102.7	1055.0	1020.1
75°	842.1	848.5	877.1	816.7	765.8
77.5°	638.7	645.1	661.0	600.6	543.4
80°	454.4	454.4	460.8	397.2	359.1
82.5°	286.0	286.0	282.8	235.2	212.9
85°	149.4	146.2	143.0	114.4	104.9
87.5°	54.0	54.0	44.5	41.3	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)