

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: P487281

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4STD-50-120-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: P487281
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-50-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

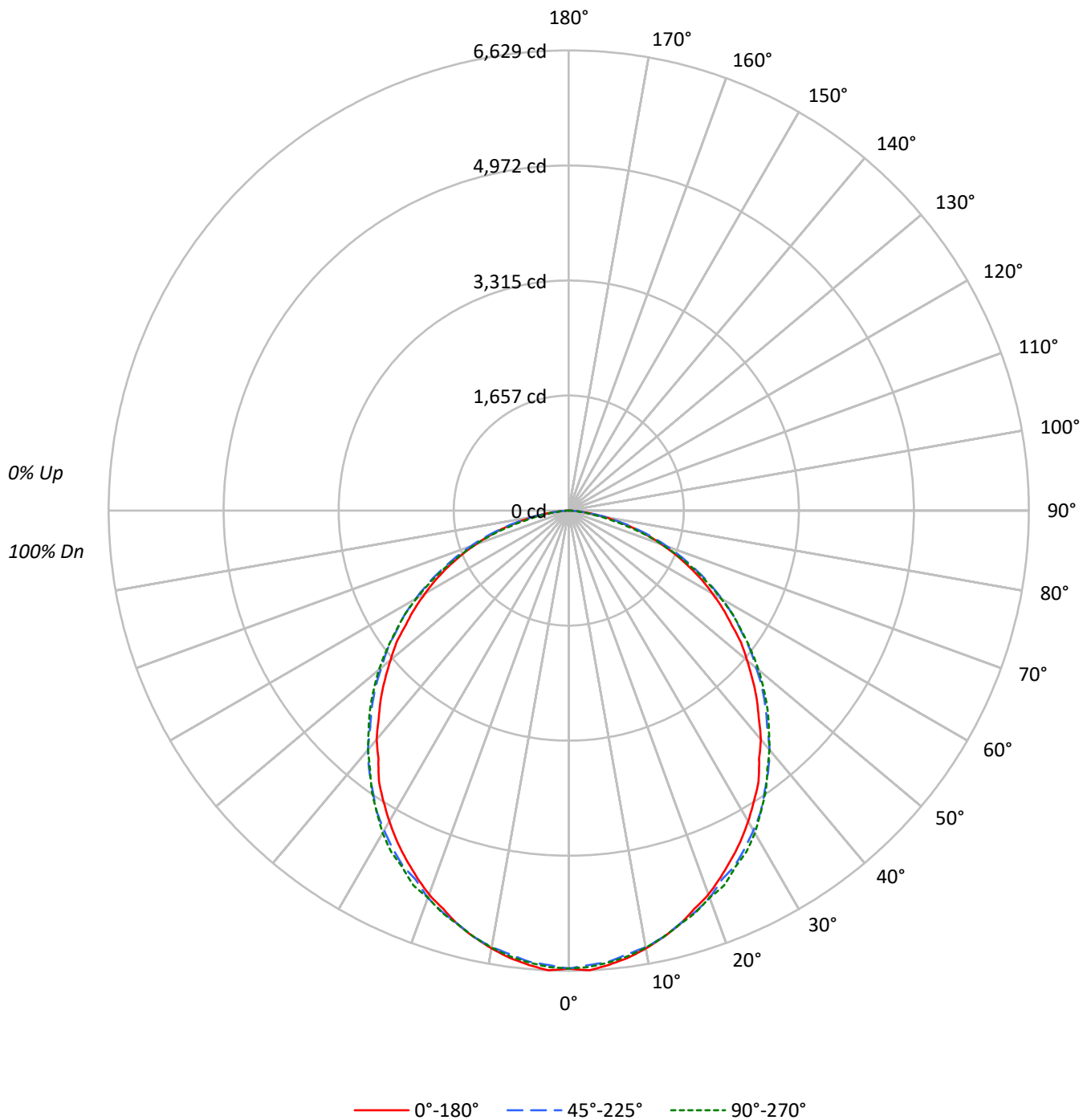
Lumens per Lamp: N/A
Luminaire Lumens: 16944.3 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
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°	8876	8876	8876
5°	8876	8812	8827
10°	8752	8722	8732
15°	8601	8591	8596
20°	8428	8501	8495
25°	8230	8391	8417
30°	8030	8265	8333
35°	7832	8087	8122
40°	7564	7906	7900
45°	7289	7632	7707
50°	7014	7376	7474
55°	6718	7115	7158
60°	6435	6862	6814
65°	6097	6442	6316
70°	5619	5917	5647
75°	4969	5175	4519
80°	3997	4052	3158
85°	2617	2506	1837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.1	3.7
10°-20°	1743.5	10.3
20°-30°	2595.8	15.3
30°-40°	3055.4	18.0
40°-50°	3063.4	18.1
50°-60°	2686.4	15.9
60°-70°	1964.3	11.6
70°-80°	1012.4	6.0
80°-90°	203.1	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°	4959.4	29.3
0°-40°	8014.8	47.3
0°-60°	13764.5	81.2
0°-90°	16944.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16944.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6597	6597	6597	6597	6597	
5°	6572	6528	6525	6568	6536	622
15°	6175	6186	6168	6207	6171	1738
25°	5544	5569	5652	5731	5670	2554
35°	4768	4790	4923	4977	4945	2970
45°	3830	3848	4011	4061	4050	2952
55°	2864	2929	3033	3077	3051	2571
65°	1915	1958	2023	2016	1984	1895
75°	956	963	996	927	869	1013
85°	170	166	162	130	119	221
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6596.8	6596.8	6596.8	6596.8	6596.8
2.5°	6629.3	6596.8	6553.5	6589.6	6582.4
5°	6571.5	6528.3	6524.7	6567.9	6535.5
7.5°	6499.4	6492.2	6448.9	6495.8	6477.8
10°	6405.6	6398.4	6384.0	6416.5	6391.2
12.5°	6293.8	6286.6	6293.8	6311.9	6293.8
15°	6174.8	6185.6	6167.6	6207.3	6171.2
17.5°	6016.1	6026.9	6063.0	6077.4	6073.8
20°	5886.3	5893.5	5936.8	5994.5	5933.1
22.5°	5716.7	5734.8	5756.4	5861.0	5846.6
25°	5543.6	5568.9	5651.8	5731.2	5669.9
27.5°	5363.3	5388.5	5489.5	5547.2	5540.0
30°	5168.5	5193.8	5320.0	5399.3	5363.3
32.5°	4966.5	5009.8	5146.9	5215.4	5146.9
35°	4768.2	4789.8	4923.3	4977.4	4944.9
37.5°	4504.9	4587.8	4721.3	4757.3	4699.6
40°	4306.5	4310.1	4501.3	4501.3	4497.7
42.5°	4050.4	4108.1	4234.4	4302.9	4266.8
45°	3830.4	3848.4	4010.7	4061.2	4050.4
47.5°	3588.7	3660.9	3779.9	3837.6	3808.8
50°	3350.7	3401.2	3523.8	3599.6	3570.7
52.5°	3130.7	3170.4	3296.6	3339.9	3311.0
55°	2863.8	2928.7	3033.3	3076.6	3051.3
57.5°	2632.9	2679.8	2809.7	2824.1	2809.7
60°	2391.3	2445.4	2550.0	2560.8	2532.0
62.5°	2160.5	2196.5	2290.3	2293.9	2261.4
65°	1915.2	1958.5	2023.4	2016.2	1983.7
67.5°	1673.5	1702.4	1763.7	1738.5	1702.4
70°	1428.3	1453.5	1504.0	1468.0	1435.5
72.5°	1190.2	1208.3	1251.6	1197.5	1157.8
75°	955.8	963.0	995.5	926.9	869.2
77.5°	725.0	732.2	750.2	681.7	616.8
80°	515.8	515.8	523.0	450.8	407.6
82.5°	324.6	324.6	321.0	266.9	241.7
85°	169.5	165.9	162.3	129.8	119.0
87.5°	61.3	61.3	50.5	46.9	50.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)