

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: P487219

Luminaire Tested: **ORLG-24-4-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: P487219
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-LD4-3HI-40-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

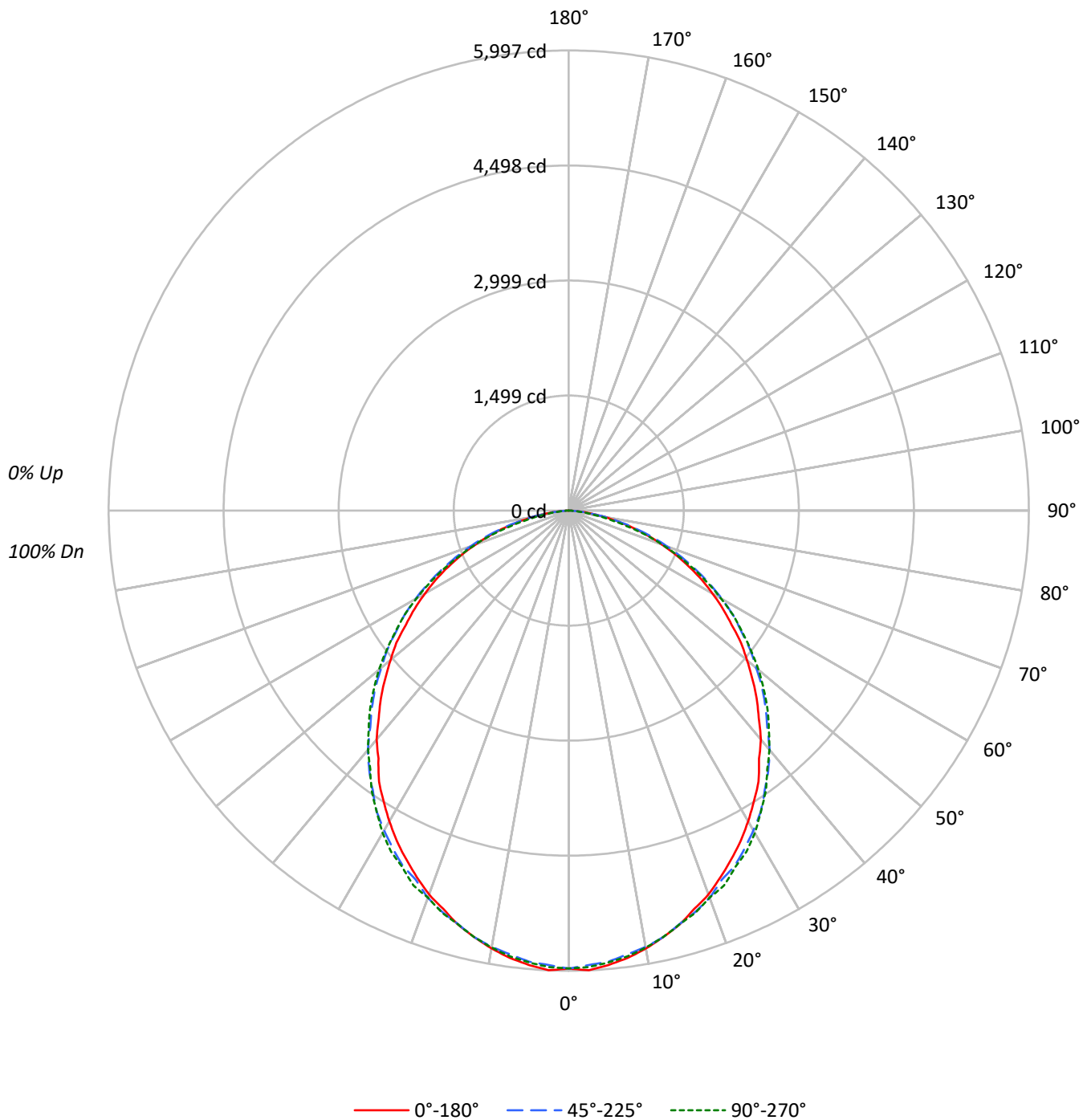
Lumens per Lamp: N/A
Luminaire Lumens: 15327.6 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	8029	8029	8029
5°	8029	7972	7985
10°	7917	7890	7899
15°	7780	7771	7776
20°	7624	7689	7685
25°	7445	7590	7614
30°	7264	7477	7538
35°	7085	7315	7347
40°	6842	7152	7146
45°	6593	6904	6972
50°	6345	6672	6761
55°	6077	6437	6475
60°	5821	6207	6163
65°	5516	5827	5713
70°	5083	5352	5108
75°	4495	4681	4088
80°	3615	3666	2857
85°	2367	2266	1663



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.9	3.7
10°-20°	1577.2	10.3
20°-30°	2348.1	15.3
30°-40°	2763.9	18.0
40°-50°	2771.1	18.1
50°-60°	2430.0	15.9
60°-70°	1776.9	11.6
70°-80°	915.7	6.0
80°-90°	183.7	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°	4486.2	29.3
0°-40°	7250.0	47.3
0°-60°	12451.2	81.2
0°-90°	15327.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15327.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5967	5967	5967	5967	5967	
5°	5944	5905	5902	5941	5912	563
15°	5586	5595	5579	5615	5582	1572
25°	5015	5038	5113	5184	5129	2310
35°	4313	4333	4454	4502	4473	2686
45°	3465	3481	3628	3674	3664	2670
55°	2590	2649	2744	2783	2760	2325
65°	1732	1772	1830	1824	1794	1714
75°	865	871	900	838	786	916
85°	153	150	147	118	108	200
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5967.4	5967.4	5967.4	5967.4	5967.4
2.5°	5996.7	5967.4	5928.2	5960.9	5954.3
5°	5944.5	5905.4	5902.1	5941.3	5911.9
7.5°	5879.3	5872.8	5833.6	5876.0	5859.7
10°	5794.5	5787.9	5774.9	5804.2	5781.4
12.5°	5693.3	5686.8	5693.3	5709.6	5693.3
15°	5585.6	5595.4	5579.1	5615.0	5582.4
17.5°	5442.1	5451.9	5484.5	5497.6	5494.3
20°	5324.6	5331.2	5370.3	5422.5	5367.1
22.5°	5171.3	5187.6	5207.2	5301.8	5288.7
25°	5014.7	5037.5	5112.6	5184.3	5128.9
27.5°	4851.6	4874.4	4965.7	5017.9	5011.4
30°	4675.4	4698.2	4812.4	4884.2	4851.6
32.5°	4492.7	4531.8	4655.8	4717.8	4655.8
35°	4313.2	4332.8	4453.5	4502.5	4473.1
37.5°	4075.0	4150.1	4270.8	4303.4	4251.2
40°	3895.6	3898.9	4071.8	4071.8	4068.5
42.5°	3664.0	3716.2	3830.3	3892.3	3859.7
45°	3464.9	3481.2	3628.1	3673.7	3664.0
47.5°	3246.3	3311.6	3419.3	3471.5	3445.4
50°	3031.0	3076.7	3187.6	3256.1	3230.0
52.5°	2832.0	2867.9	2982.1	3021.2	2995.1
55°	2590.5	2649.3	2743.9	2783.0	2760.2
57.5°	2381.7	2424.1	2541.6	2554.7	2541.6
60°	2163.1	2212.1	2306.7	2316.5	2290.4
62.5°	1954.3	1987.0	2071.8	2075.0	2045.7
65°	1732.5	1771.6	1830.3	1823.8	1794.5
67.5°	1513.9	1540.0	1595.4	1572.6	1540.0
70°	1292.0	1314.8	1360.5	1327.9	1298.5
72.5°	1076.7	1093.0	1132.1	1083.2	1047.3
75°	864.6	871.1	900.5	838.5	786.3
77.5°	655.8	662.3	678.6	616.6	557.9
80°	466.6	466.6	473.1	407.8	368.7
82.5°	293.6	293.6	290.4	241.4	218.6
85°	153.3	150.1	146.8	117.5	107.7
87.5°	55.5	55.5	45.7	42.4	45.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)