

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: P487312

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5STD-35-120-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: P487312
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-LD4-5STD-35-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

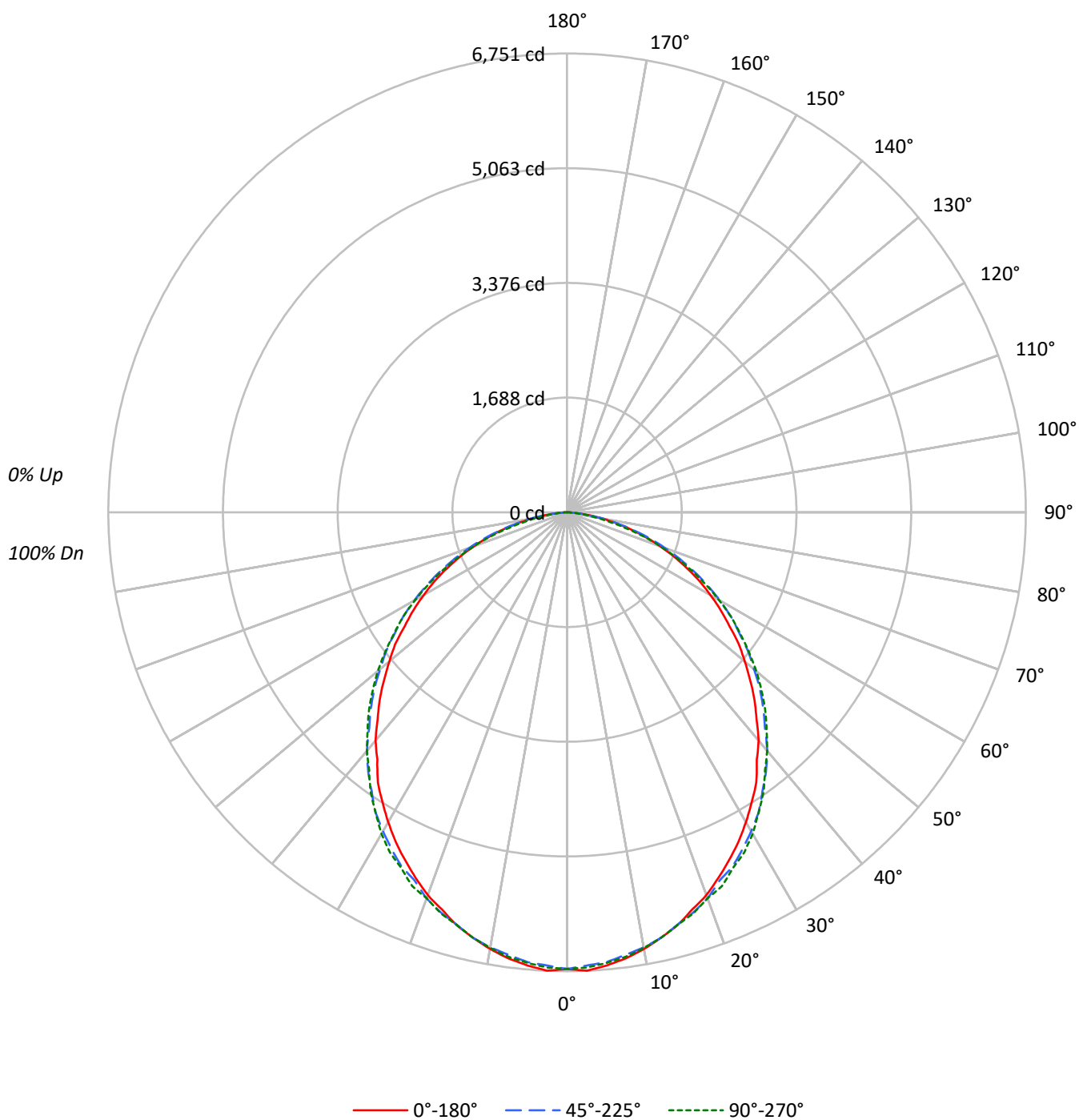
Lumens per Lamp: N/A
Luminaire Lumens: 17254.5 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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	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°	9038	9038	9038
5°	9038	8974	8989
10°	8912	8882	8892
15°	8759	8748	8754
20°	8582	8656	8651
25°	8381	8544	8572
30°	8177	8417	8485
35°	7975	8235	8271
40°	7702	8051	8044
45°	7422	7771	7848
50°	7142	7511	7611
55°	6841	7246	7289
60°	6553	6988	6938
65°	6209	6560	6431
70°	5722	6025	5751
75°	5060	5270	4601
80°	4069	4127	3216
85°	2665	2552	1871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.4	3.7
10°-20°	1775.4	10.3
20°-30°	2643.3	15.3
30°-40°	3111.3	18.0
40°-50°	3119.5	18.1
50°-60°	2735.5	15.9
60°-70°	2000.3	11.6
70°-80°	1030.9	6.0
80°-90°	206.8	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°	5050.2	29.3
0°-40°	8161.5	47.3
0°-60°	14016.5	81.2
0°-90°	17254.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17254.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6718	6718	6718	6718	6718	
5°	6692	6648	6644	6688	6655	633
15°	6288	6299	6280	6321	6284	1770
25°	5645	5671	5755	5836	5774	2600
35°	4856	4878	5013	5068	5035	3024
45°	3900	3919	4084	4136	4125	3006
55°	2916	2982	3089	3133	3107	2618
65°	1950	1994	2060	2053	2020	1929
75°	973	981	1014	944	885	1031
85°	173	169	165	132	121	225
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6717.6	6717.6	6717.6	6717.6	6717.6
2.5°	6750.6	6717.6	6673.5	6710.2	6702.9
5°	6691.9	6647.8	6644.1	6688.2	6655.1
7.5°	6618.4	6611.1	6567.0	6614.7	6596.4
10°	6522.9	6515.6	6500.9	6533.9	6508.2
12.5°	6409.0	6401.7	6409.0	6427.4	6409.0
15°	6287.8	6298.9	6280.5	6320.9	6284.2
17.5°	6126.2	6137.3	6174.0	6188.7	6185.0
20°	5994.0	6001.4	6045.4	6104.2	6041.8
22.5°	5821.4	5839.8	5861.8	5968.3	5953.6
25°	5645.1	5670.8	5755.3	5836.1	5773.7
27.5°	5461.5	5487.2	5590.0	5648.8	5641.4
30°	5263.1	5288.8	5417.4	5498.2	5461.5
32.5°	5057.5	5101.5	5241.1	5310.9	5241.1
35°	4855.5	4877.5	5013.4	5068.5	5035.4
37.5°	4587.3	4671.8	4807.7	4844.4	4785.7
40°	4385.3	4389.0	4583.7	4583.7	4580.0
42.5°	4124.6	4183.3	4311.9	4381.7	4344.9
45°	3900.5	3918.9	4084.2	4135.6	4124.6
47.5°	3654.4	3727.9	3849.1	3907.9	3878.5
50°	3412.0	3463.5	3588.3	3665.5	3636.1
52.5°	3188.0	3228.4	3356.9	3401.0	3371.6
55°	2916.2	2982.3	3088.8	3132.9	3107.2
57.5°	2681.1	2728.9	2861.1	2875.8	2861.1
60°	2435.1	2490.2	2596.7	2607.7	2578.3
62.5°	2200.0	2236.7	2332.2	2335.9	2302.8
65°	1950.3	1994.3	2060.4	2053.1	2020.0
67.5°	1704.2	1733.6	1796.0	1770.3	1733.6
70°	1454.4	1480.1	1531.6	1494.8	1461.8
72.5°	1212.0	1230.4	1274.5	1219.4	1179.0
75°	973.3	980.6	1013.7	943.9	885.1
77.5°	738.2	745.6	763.9	694.2	628.0
80°	525.2	525.2	532.6	459.1	415.0
82.5°	330.6	330.6	326.9	271.8	246.1
85°	172.6	168.9	165.3	132.2	121.2
87.5°	62.4	62.4	51.4	47.7	51.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)