

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: P487337

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6LO-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: P487337
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-LD4-6LO-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

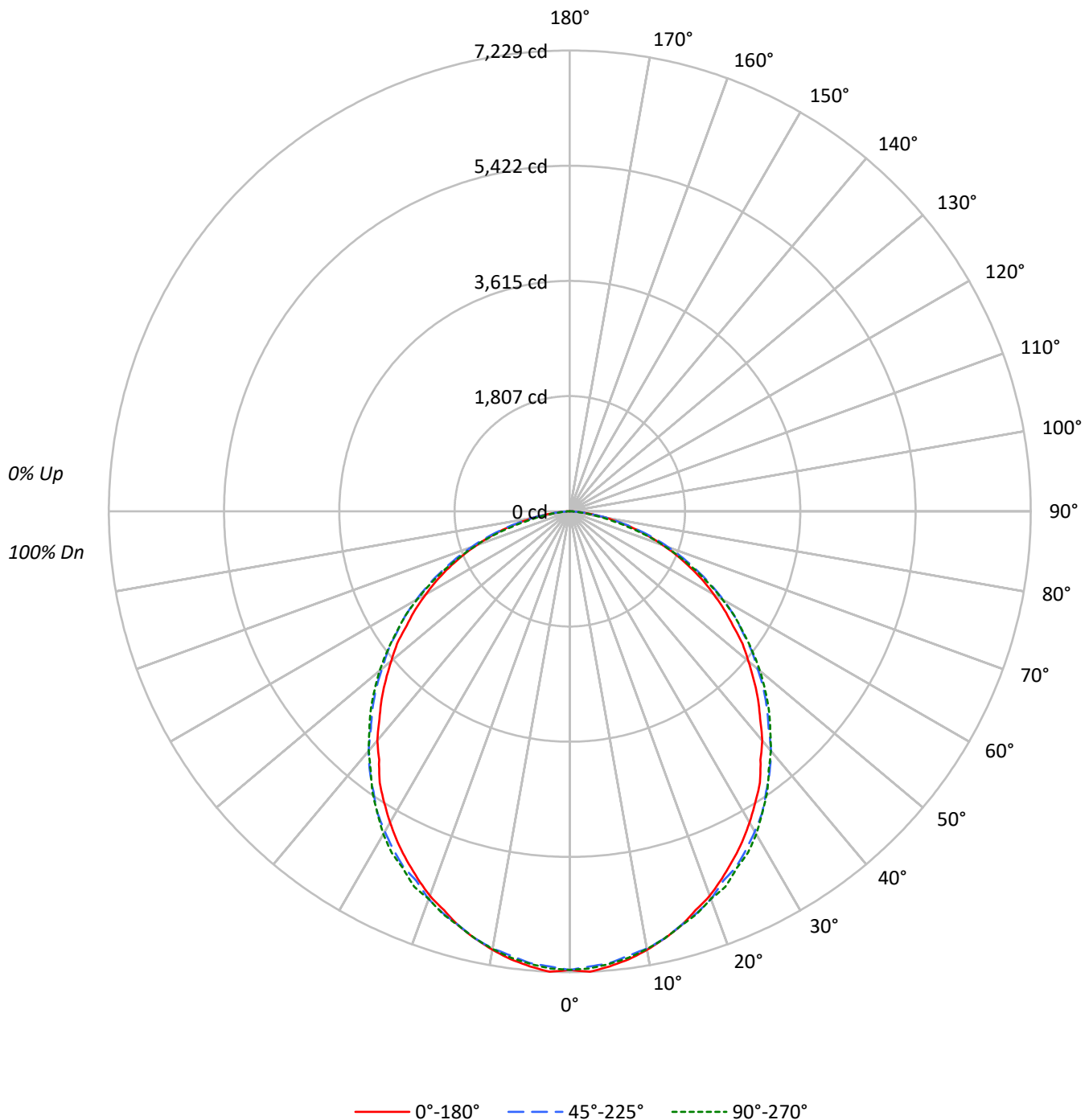
Lumens per Lamp: N/A
Luminaire Lumens: 18477.9 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.4
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°	9679	9679	9679
5°	9679	9610	9626
10°	9544	9512	9522
15°	9380	9369	9374
20°	9191	9270	9264
25°	8975	9150	9179
30°	8757	9013	9087
35°	8541	8818	8857
40°	8249	8622	8615
45°	7948	8322	8405
50°	7649	8044	8151
55°	7326	7759	7806
60°	7017	7483	7430
65°	6649	7025	6887
70°	6128	6452	6158
75°	5418	5644	4928
80°	4358	4419	3444
85°	2854	2732	2004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.2	3.7
10°-20°	1901.3	10.3
20°-30°	2830.7	15.3
30°-40°	3331.9	18.0
40°-50°	3340.7	18.1
50°-60°	2929.5	15.9
60°-70°	2142.1	11.6
70°-80°	1104.0	6.0
80°-90°	221.5	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°	5408.2	29.3
0°-40°	8740.1	47.3
0°-60°	15010.3	81.2
0°-90°	18477.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18477.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7194	7194	7194	7194	7194	
5°	7166	7119	7115	7162	7127	678
15°	6734	6746	6726	6769	6730	1895
25°	6045	6073	6163	6250	6183	2785
35°	5200	5223	5369	5428	5392	3238
45°	4177	4197	4374	4429	4417	3219
55°	3123	3194	3308	3355	3328	2803
65°	2088	2136	2206	2199	2163	2066
75°	1042	1050	1086	1011	948	1105
85°	185	181	177	142	130	241
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7193.9	7193.9	7193.9	7193.9	7193.9
2.5°	7229.3	7193.9	7146.7	7186.0	7178.1
5°	7166.3	7119.1	7115.2	7162.4	7127.0
7.5°	7087.7	7079.8	7032.6	7083.7	7064.1
10°	6985.4	6977.5	6961.8	6997.2	6969.7
12.5°	6863.5	6855.6	6863.5	6883.1	6863.5
15°	6733.7	6745.5	6725.8	6769.1	6729.7
17.5°	6560.6	6572.4	6611.7	6627.5	6623.5
20°	6419.0	6426.9	6474.1	6537.0	6470.1
22.5°	6234.2	6253.8	6277.4	6391.5	6375.8
25°	6045.4	6072.9	6163.4	6249.9	6183.0
27.5°	5848.7	5876.2	5986.4	6049.3	6041.4
30°	5636.3	5663.8	5801.5	5888.0	5848.7
32.5°	5416.0	5463.2	5612.7	5687.4	5612.7
35°	5199.7	5223.3	5368.8	5427.8	5392.4
37.5°	4912.6	5003.1	5148.6	5187.9	5125.0
40°	4696.3	4700.2	4908.7	4908.7	4904.7
42.5°	4417.0	4479.9	4617.6	4692.3	4653.0
45°	4177.1	4196.7	4373.7	4428.8	4417.0
47.5°	3913.6	3992.2	4122.0	4184.9	4153.5
50°	3654.0	3709.0	3842.8	3925.4	3893.9
52.5°	3414.0	3457.3	3595.0	3642.2	3610.7
55°	3123.0	3193.8	3307.8	3355.0	3327.5
57.5°	2871.3	2922.4	3064.0	3079.7	3064.0
60°	2607.7	2666.7	2780.8	2792.6	2761.1
62.5°	2356.0	2395.3	2497.6	2501.5	2466.1
65°	2088.5	2135.7	2206.5	2198.7	2163.3
67.5°	1825.0	1856.5	1923.3	1895.8	1856.5
70°	1557.6	1585.1	1640.2	1600.8	1565.4
72.5°	1298.0	1317.6	1364.8	1305.8	1262.6
75°	1042.3	1050.2	1085.6	1010.8	947.9
77.5°	790.6	798.4	818.1	743.4	672.6
80°	562.5	562.5	570.3	491.7	444.5
82.5°	354.0	354.0	350.1	291.1	263.5
85°	184.9	180.9	177.0	141.6	129.8
87.5°	66.9	66.9	55.1	51.1	55.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)