

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: P487320

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6HI-27-120-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: P487320
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-LD4-6HI-27-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

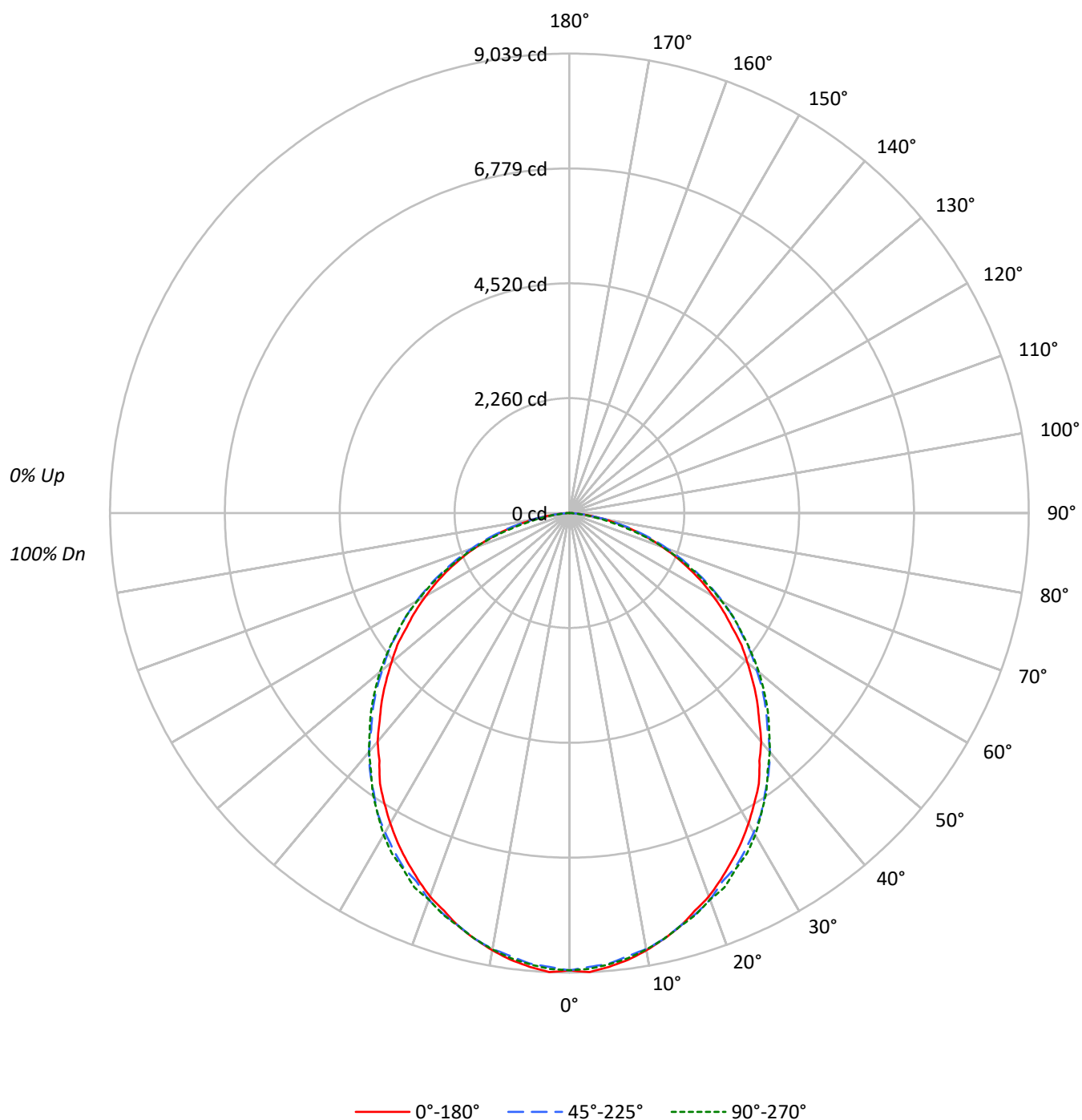
Lumens per Lamp: N/A
Luminaire Lumens: 23104.3 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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°	12103	12103	12103
5°	12102	12016	12036
10°	11933	11893	11906
15°	11728	11714	11721
20°	11492	11591	11584
25°	11222	11441	11477
30°	10949	11270	11362
35°	10679	11027	11075
40°	10314	10780	10772
45°	9938	10406	10509
50°	9563	10058	10191
55°	9160	9702	9760
60°	8774	9357	9290
65°	8314	8784	8612
70°	7661	8068	7700
75°	6775	7057	6161
80°	5449	5525	4306
85°	3568	3416	2506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	845.5	3.7
10°-20°	2377.4	10.3
20°-30°	3539.5	15.3
30°-40°	4166.2	18.0
40°-50°	4177.1	18.1
50°-60°	3663.0	15.9
60°-70°	2678.5	11.6
70°-80°	1380.4	6.0
80°-90°	276.9	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°	6762.3	29.3
0°-40°	10928.5	47.3
0°-60°	18768.5	81.2
0°-90°	23104.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23104.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8995	8995	8995	8995	8995	
5°	8961	8902	8897	8956	8911	848
15°	8420	8434	8410	8464	8415	2370
25°	7559	7593	7706	7815	7731	3482
35°	6502	6531	6713	6787	6743	4049
45°	5223	5248	5469	5538	5523	4025
55°	3905	3993	4136	4195	4161	3505
65°	2612	2670	2759	2749	2705	2583
75°	1303	1313	1357	1264	1185	1381
85°	231	226	221	177	162	302
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8995.0	8995.0	8995.0	8995.0	8995.0
2.5°	9039.3	8995.0	8936.0	8985.2	8975.3
5°	8960.6	8901.6	8896.7	8955.7	8911.4
7.5°	8862.2	8852.4	8793.4	8857.3	8832.7
10°	8734.4	8724.5	8704.9	8749.1	8714.7
12.5°	8581.9	8572.1	8581.9	8606.5	8581.9
15°	8419.6	8434.4	8409.8	8463.9	8414.7
17.5°	8203.2	8218.0	8267.2	8286.8	8281.9
20°	8026.2	8036.0	8095.0	8173.7	8090.1
22.5°	7795.0	7819.6	7849.1	7991.7	7972.1
25°	7559.0	7593.4	7706.5	7814.7	7731.1
27.5°	7313.1	7347.5	7485.2	7563.9	7554.0
30°	7047.5	7081.9	7254.0	7362.2	7313.1
32.5°	6772.1	6831.1	7018.0	7111.4	7018.0
35°	6501.6	6531.1	6713.1	6786.8	6742.6
37.5°	6142.6	6255.7	6437.7	6486.8	6408.2
40°	5872.1	5877.0	6137.7	6137.7	6132.7
42.5°	5522.9	5601.6	5773.7	5867.2	5818.0
45°	5222.9	5247.5	5468.8	5537.7	5522.9
47.5°	4893.4	4991.8	5154.1	5232.8	5193.4
50°	4568.8	4637.7	4804.9	4908.2	4868.8
52.5°	4268.8	4322.9	4495.1	4554.1	4514.7
55°	3904.9	3993.4	4136.0	4195.1	4160.6
57.5°	3590.1	3654.1	3831.1	3850.8	3831.1
60°	3260.6	3334.4	3477.0	3491.8	3452.4
62.5°	2945.9	2995.1	3122.9	3127.8	3083.6
65°	2611.5	2670.5	2759.0	2749.2	2704.9
67.5°	2282.0	2321.3	2404.9	2370.5	2321.3
70°	1947.5	1982.0	2050.8	2001.6	1957.4
72.5°	1622.9	1647.5	1706.5	1632.8	1578.7
75°	1303.3	1313.1	1357.4	1263.9	1185.2
77.5°	988.5	998.4	1022.9	929.5	841.0
80°	703.3	703.3	713.1	614.7	555.7
82.5°	442.6	442.6	437.7	363.9	329.5
85°	231.1	226.2	221.3	177.0	162.3
87.5°	83.6	83.6	68.9	63.9	68.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)