

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: P487343

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6STD-20-120-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: P487343
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-LD4-6STD-20-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

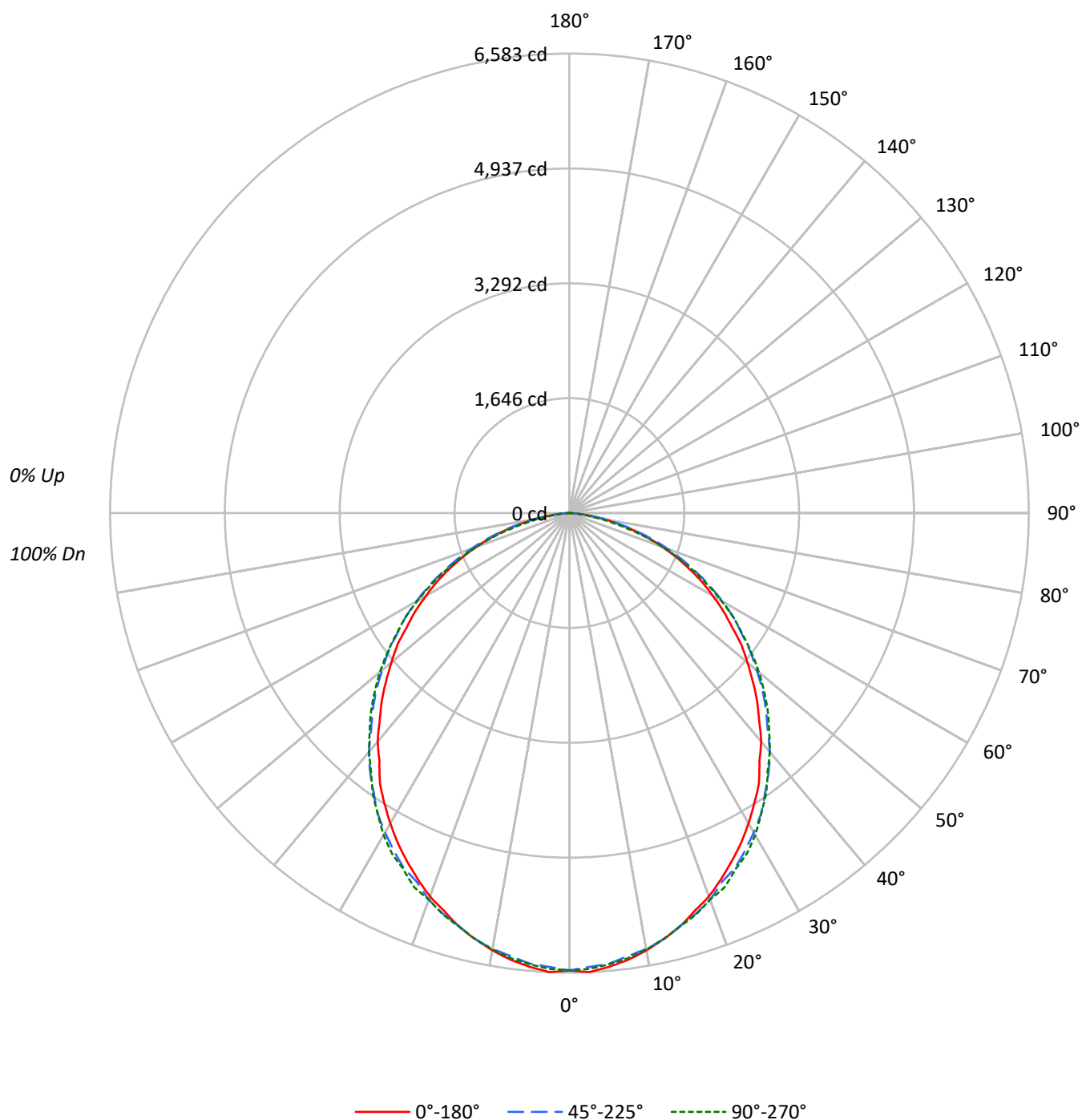
Lumens per Lamp: N/A
Luminaire Lumens: 16826.6 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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°	8814	8814	8814
5°	8814	8751	8766
10°	8691	8662	8671
15°	8541	8531	8536
20°	8370	8441	8436
25°	8173	8332	8359
30°	7974	8208	8275
35°	7777	8031	8066
40°	7511	7851	7845
45°	7238	7579	7654
50°	6965	7325	7422
55°	6671	7066	7108
60°	6390	6814	6766
65°	6055	6397	6272
70°	5580	5876	5608
75°	4934	5139	4487
80°	3969	4024	3136
85°	2598	2489	1825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.8	3.7
10°-20°	1731.4	10.3
20°-30°	2577.7	15.3
30°-40°	3034.2	18.0
40°-50°	3042.1	18.1
50°-60°	2667.7	15.9
60°-70°	1950.7	11.6
70°-80°	1005.3	6.0
80°-90°	201.7	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°	4924.9	29.3
0°-40°	7959.1	47.3
0°-60°	13668.9	81.2
0°-90°	16826.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16826.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6551	6551	6551	6551	6551	
5°	6526	6483	6479	6522	6490	618
15°	6132	6143	6125	6164	6128	1726
25°	5505	5530	5613	5691	5630	2536
35°	4735	4756	4889	4943	4910	2949
45°	3804	3822	3983	4033	4022	2931
55°	2844	2908	3012	3055	3030	2553
65°	1902	1945	2009	2002	1970	1881
75°	949	956	989	920	863	1006
85°	168	165	161	129	118	220
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6551.0	6551.0	6551.0	6551.0	6551.0
2.5°	6583.2	6551.0	6508.0	6543.8	6536.6
5°	6525.9	6482.9	6479.3	6522.3	6490.1
7.5°	6454.3	6447.1	6404.1	6450.7	6432.8
10°	6361.1	6354.0	6339.7	6371.9	6346.8
12.5°	6250.1	6242.9	6250.1	6268.0	6250.1
15°	6131.9	6142.7	6124.7	6164.1	6128.3
17.5°	5974.3	5985.1	6020.9	6035.2	6031.6
20°	5845.4	5852.5	5895.5	5952.8	5891.9
22.5°	5677.0	5694.9	5716.4	5820.3	5806.0
25°	5505.1	5530.2	5612.6	5691.4	5630.5
27.5°	5326.0	5351.1	5451.4	5508.7	5501.5
30°	5132.6	5157.7	5283.0	5361.8	5326.0
32.5°	4932.0	4975.0	5111.1	5179.2	5111.1
35°	4735.0	4756.5	4889.1	4942.8	4910.5
37.5°	4473.6	4556.0	4688.5	4724.3	4667.0
40°	4276.6	4280.2	4470.0	4470.0	4466.4
42.5°	4022.3	4079.6	4204.9	4273.0	4237.2
45°	3803.8	3821.7	3982.9	4033.0	4022.3
47.5°	3563.8	3635.4	3753.6	3811.0	3782.3
50°	3327.4	3377.6	3499.3	3574.6	3545.9
52.5°	3108.9	3148.3	3273.7	3316.7	3288.0
55°	2843.9	2908.4	3012.2	3055.2	3030.1
57.5°	2614.7	2661.2	2790.2	2804.5	2790.2
60°	2374.7	2428.4	2532.3	2543.0	2514.4
62.5°	2145.5	2181.3	2274.4	2278.0	2245.7
65°	1901.9	1944.9	2009.3	2002.2	1969.9
67.5°	1661.9	1690.6	1751.5	1726.4	1690.6
70°	1418.4	1443.4	1493.6	1457.8	1425.5
72.5°	1182.0	1199.9	1242.9	1189.1	1149.7
75°	949.2	956.3	988.6	920.5	863.2
77.5°	719.9	727.1	745.0	676.9	612.5
80°	512.2	512.2	519.3	447.7	404.7
82.5°	322.4	322.4	318.8	265.0	240.0
85°	168.3	164.8	161.2	128.9	118.2
87.5°	60.9	60.9	50.1	46.6	50.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)