

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: P487238

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3STD-30-120-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: P487238
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-LD4-3STD-30-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

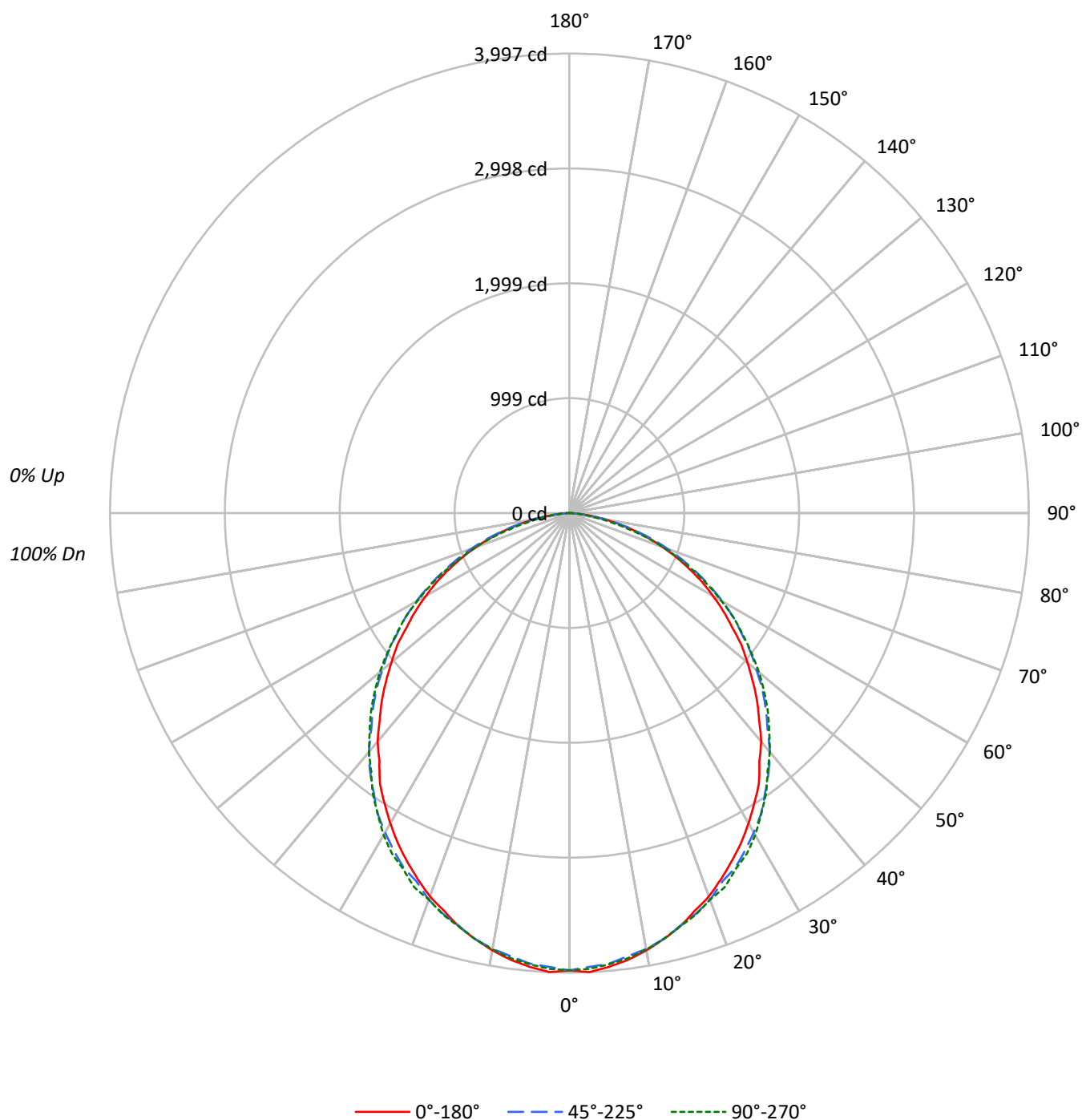
Lumens per Lamp: N/A
Luminaire Lumens: 10216.2 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5352	5352	5352
5°	5351	5313	5322
10°	5277	5259	5265
15°	5186	5180	5183
20°	5082	5125	5122
25°	4962	5059	5075
30°	4841	4983	5024
35°	4722	4876	4897
40°	4561	4767	4763
45°	4395	4601	4647
50°	4229	4447	4506
55°	4050	4290	4316
60°	3880	4137	4108
65°	3676	3884	3808
70°	3388	3567	3405
75°	2996	3120	2725
80°	2410	2443	1904
85°	1578	1511	1108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.9	3.7
10°-20°	1051.2	10.3
20°-30°	1565.1	15.3
30°-40°	1842.2	18.0
40°-50°	1847.0	18.1
50°-60°	1619.7	15.9
60°-70°	1184.4	11.6
70°-80°	610.4	6.0
80°-90°	122.5	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°	2990.1	29.3
0°-40°	4832.3	47.3
0°-60°	8299.0	81.2
0°-90°	10216.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10216.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3977	3977	3977	3977	3977	
5°	3962	3936	3934	3960	3940	375
15°	3723	3730	3719	3742	3721	1048
25°	3342	3358	3408	3456	3418	1540
35°	2875	2888	2968	3001	2981	1790
45°	2310	2320	2418	2449	2442	1780
55°	1727	1766	1829	1855	1840	1550
65°	1155	1181	1220	1216	1196	1142
75°	576	581	600	559	524	611
85°	102	100	98	78	72	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3977.4	3977.4	3977.4	3977.4	3977.4
2.5°	3997.0	3977.4	3951.3	3973.0	3968.7
5°	3962.2	3936.1	3933.9	3960.0	3940.4
7.5°	3918.7	3914.3	3888.2	3916.5	3905.6
10°	3862.1	3857.8	3849.1	3868.7	3853.4
12.5°	3794.7	3790.4	3794.7	3805.6	3794.7
15°	3723.0	3729.5	3718.6	3742.5	3720.8
17.5°	3627.3	3633.8	3655.6	3664.2	3662.1
20°	3549.0	3553.3	3579.4	3614.2	3577.3
22.5°	3446.8	3457.7	3470.7	3533.8	3525.1
25°	3342.4	3357.6	3407.6	3455.5	3418.5
27.5°	3233.7	3248.9	3309.8	3344.6	3340.2
30°	3116.2	3131.5	3207.6	3255.4	3233.7
32.5°	2994.5	3020.6	3103.2	3144.5	3103.2
35°	2874.9	2887.9	2968.4	3001.0	2981.4
37.5°	2716.1	2766.1	2846.6	2868.3	2833.5
40°	2596.5	2598.7	2713.9	2713.9	2711.8
42.5°	2442.1	2476.9	2553.0	2594.3	2572.6
45°	2309.5	2320.3	2418.2	2448.6	2442.1
47.5°	2163.8	2207.2	2279.0	2313.8	2296.4
50°	2020.2	2050.7	2124.6	2170.3	2152.9
52.5°	1887.6	1911.5	1987.6	2013.7	1996.3
55°	1726.7	1765.8	1828.9	1855.0	1839.7
57.5°	1587.5	1615.7	1694.0	1702.7	1694.0
60°	1441.8	1474.4	1537.5	1544.0	1526.6
62.5°	1302.6	1324.3	1380.9	1383.1	1363.5
65°	1154.7	1180.8	1220.0	1215.6	1196.0
67.5°	1009.0	1026.4	1063.4	1048.2	1026.4
70°	861.2	876.4	906.8	885.1	865.5
72.5°	717.6	728.5	754.6	722.0	698.1
75°	576.3	580.6	600.2	558.9	524.1
77.5°	437.1	441.4	452.3	411.0	371.9
80°	311.0	311.0	315.3	271.8	245.7
82.5°	195.7	195.7	193.5	160.9	145.7
85°	102.2	100.0	97.9	78.3	71.8
87.5°	37.0	37.0	30.4	28.3	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)