

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: P487211

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3HI-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: P487211
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-LD4-3HI-20-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

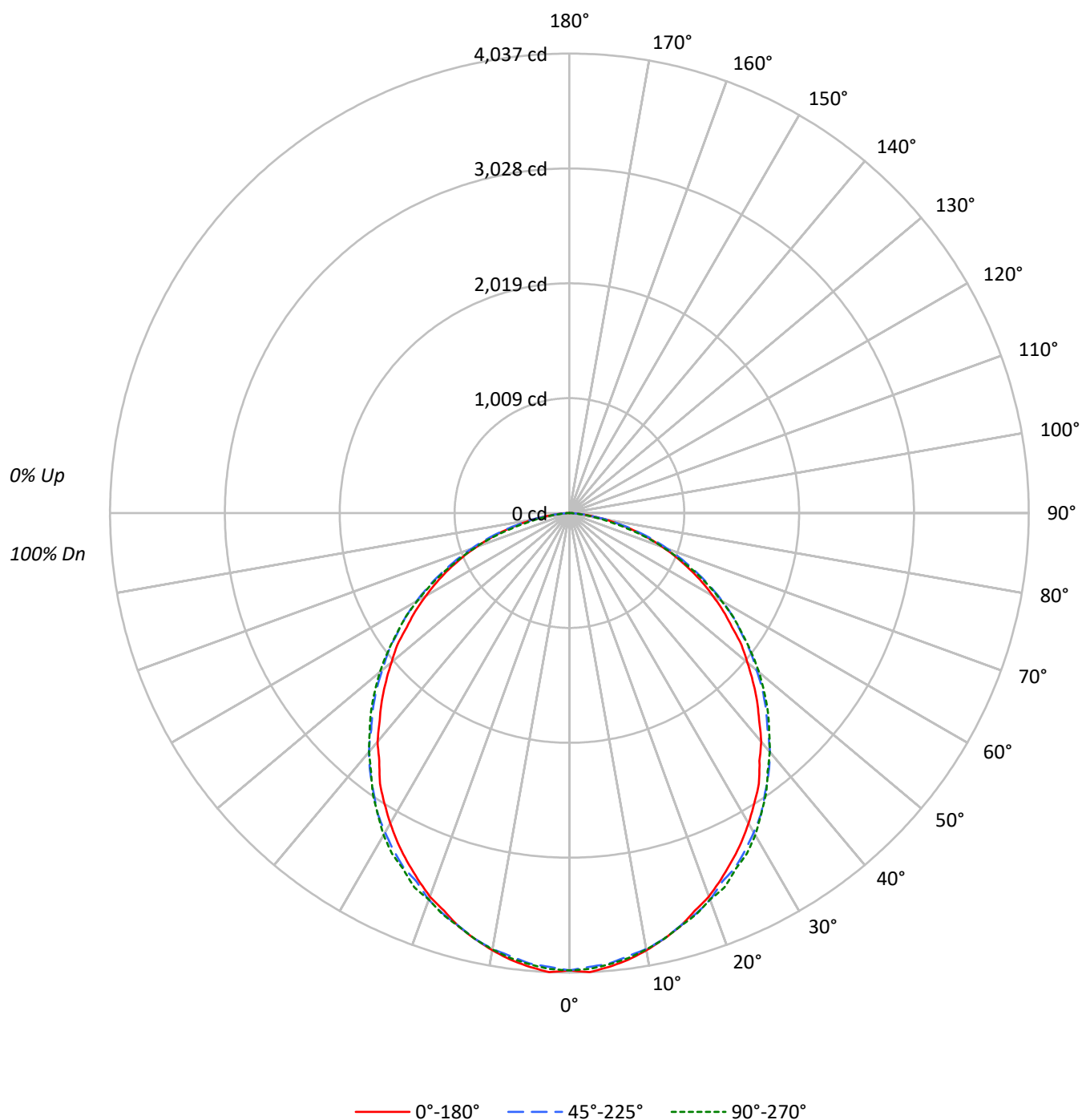
Lumens per Lamp: N/A
Luminaire Lumens: 10319.5 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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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CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-3HI-20-120-EDD

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					0
RW	70	50	30	10	70	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
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5406	5406	5406
5°	5405	5367	5376
10°	5330	5312	5318
15°	5238	5232	5235
20°	5133	5177	5174
25°	5012	5110	5126
30°	4891	5034	5075
35°	4770	4925	4947
40°	4607	4815	4811
45°	4439	4648	4694
50°	4272	4492	4552
55°	4091	4334	4359
60°	3919	4179	4149
65°	3713	3923	3846
70°	3422	3603	3439
75°	3026	3152	2752
80°	2434	2468	1923
85°	1593	1525	1119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.6	3.7
10°-20°	1061.8	10.3
20°-30°	1580.9	15.3
30°-40°	1860.8	18.0
40°-50°	1865.7	18.1
50°-60°	1636.1	15.9
60°-70°	1196.3	11.6
70°-80°	616.5	6.0
80°-90°	123.7	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°	3020.4	29.3
0°-40°	4881.2	47.3
0°-60°	8382.9	81.2
0°-90°	10319.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10319.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4018	4018	4018	4018	4018	
5°	4002	3976	3974	4000	3980	379
15°	3761	3767	3756	3780	3758	1058
25°	3376	3392	3442	3490	3453	1555
35°	2904	2917	2998	3031	3012	1808
45°	2333	2344	2443	2473	2467	1798
55°	1744	1784	1847	1874	1858	1566
65°	1166	1193	1232	1228	1208	1154
75°	582	586	606	564	529	617
85°	103	101	99	79	72	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4017.6	4017.6	4017.6	4017.6	4017.6
2.5°	4037.4	4017.6	3991.3	4013.2	4008.8
5°	4002.2	3975.9	3973.7	4000.0	3980.3
7.5°	3958.3	3953.9	3927.6	3956.1	3945.1
10°	3901.2	3896.8	3888.0	3907.8	3892.4
12.5°	3833.1	3828.7	3833.1	3844.1	3833.1
15°	3760.6	3767.2	3756.2	3780.4	3758.4
17.5°	3664.0	3670.5	3692.5	3701.3	3699.1
20°	3584.9	3589.3	3615.6	3650.8	3613.4
22.5°	3481.6	3492.6	3505.8	3569.5	3560.7
25°	3376.2	3391.6	3442.1	3490.4	3453.1
27.5°	3266.4	3281.7	3343.3	3378.4	3374.0
30°	3147.8	3163.1	3240.0	3288.3	3266.4
32.5°	3024.7	3051.1	3134.6	3176.3	3134.6
35°	2903.9	2917.1	2998.4	3031.3	3011.6
37.5°	2743.6	2794.1	2875.4	2897.3	2862.2
40°	2622.8	2625.0	2741.4	2741.4	2739.2
42.5°	2466.8	2501.9	2578.8	2620.6	2598.6
45°	2332.8	2343.8	2442.6	2473.4	2466.8
47.5°	2185.6	2229.6	2302.1	2337.2	2319.6
50°	2040.7	2071.4	2146.1	2192.2	2174.7
52.5°	1906.7	1930.8	2007.7	2034.1	2016.5
55°	1744.1	1783.7	1847.4	1873.7	1858.3
57.5°	1603.5	1632.1	1711.2	1720.0	1711.2
60°	1456.4	1489.3	1553.0	1559.6	1542.0
62.5°	1315.8	1337.7	1394.9	1397.0	1377.3
65°	1166.4	1192.8	1232.3	1227.9	1208.1
67.5°	1019.2	1036.8	1074.1	1058.8	1036.8
70°	869.9	885.2	916.0	894.0	874.3
72.5°	724.9	735.9	762.2	729.3	705.1
75°	582.1	586.5	606.3	564.5	529.4
77.5°	441.5	445.9	456.9	415.2	375.6
80°	314.1	314.1	318.5	274.6	248.2
82.5°	197.7	197.7	195.5	162.5	147.2
85°	103.2	101.0	98.8	79.1	72.5
87.5°	37.3	37.3	30.8	28.6	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)