

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: P487296

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5LO-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: P487296
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-LD4-5LO-27-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

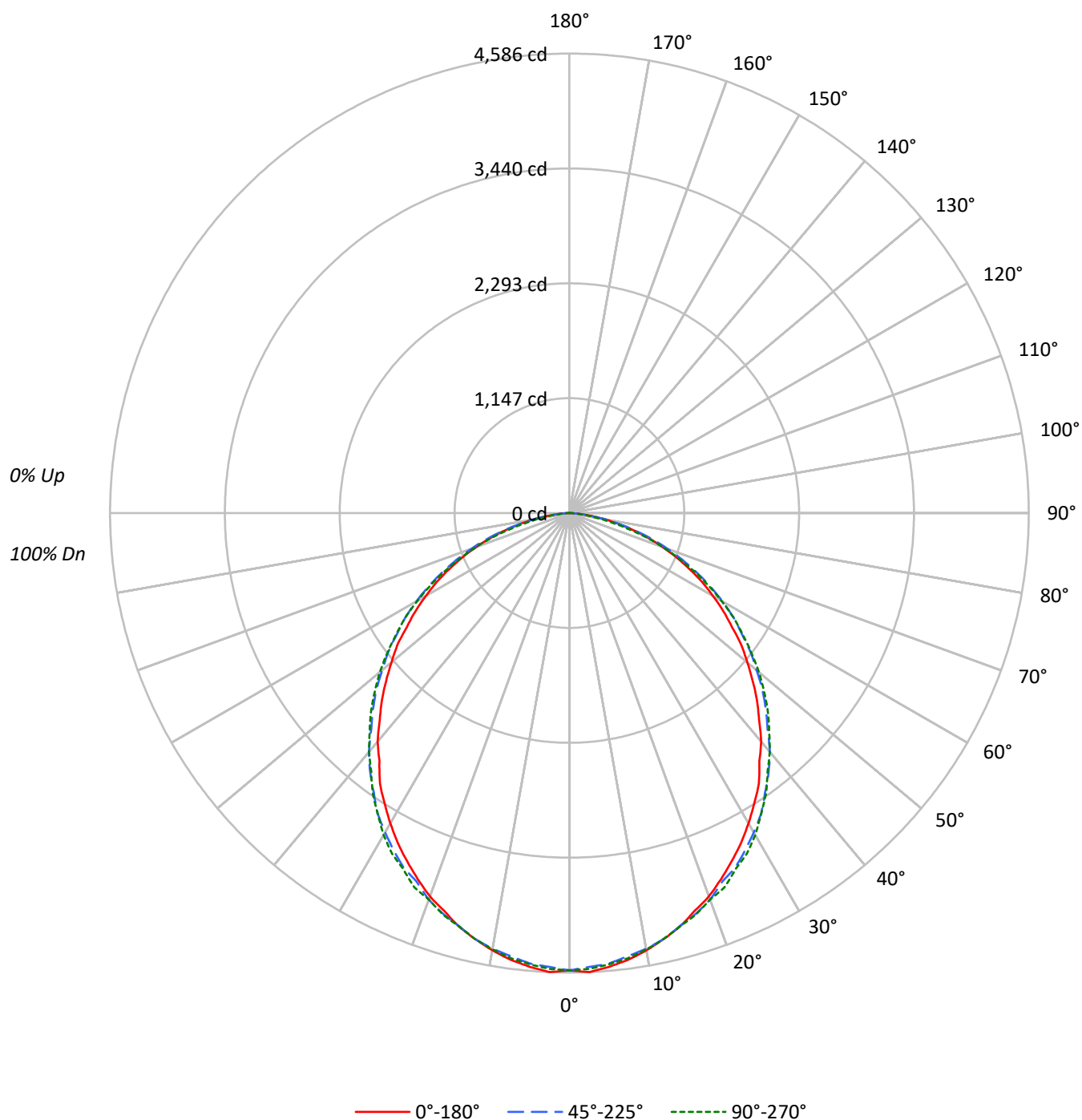
Lumens per Lamp: N/A
Luminaire Lumens: 11721.5 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	6140	6140	6140
5°	6140	6096	6106
10°	6054	6034	6040
15°	5950	5943	5947
20°	5830	5880	5877
25°	5693	5804	5823
30°	5555	5718	5764
35°	5418	5594	5619
40°	5233	5469	5465
45°	5042	5279	5331
50°	4852	5103	5170
55°	4647	4922	4951
60°	4451	4747	4713
65°	4218	4456	4369
70°	3887	4093	3906
75°	3437	3580	3126
80°	2765	2803	2184
85°	1811	1734	1271



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.9	3.7
10°-20°	1206.1	10.3
20°-30°	1795.7	15.3
30°-40°	2113.6	18.0
40°-50°	2119.2	18.1
50°-60°	1858.3	15.9
60°-70°	1358.9	11.6
70°-80°	700.3	6.0
80°-90°	140.5	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°	3430.7	29.3
0°-40°	5544.3	47.3
0°-60°	9521.8	81.2
0°-90°	11721.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11721.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4563	4563	4563	4563	4563	
5°	4546	4516	4514	4544	4521	430
15°	4272	4279	4266	4294	4269	1202
25°	3835	3852	3910	3965	3922	1766
35°	3298	3313	3406	3443	3421	2054
45°	2650	2662	2774	2809	2802	2042
55°	1981	2026	2098	2128	2111	1778
65°	1325	1355	1400	1395	1372	1311
75°	661	666	689	641	601	701
85°	117	115	112	90	82	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4563.4	4563.4	4563.4	4563.4	4563.4
2.5°	4585.9	4563.4	4533.5	4558.5	4553.5
5°	4546.0	4516.0	4513.5	4543.5	4521.0
7.5°	4496.1	4491.1	4461.1	4493.6	4481.1
10°	4431.2	4426.2	4416.2	4438.7	4421.2
12.5°	4353.9	4348.9	4353.9	4366.3	4353.9
15°	4271.5	4279.0	4266.5	4294.0	4269.0
17.5°	4161.7	4169.2	4194.2	4204.2	4201.7
20°	4071.9	4076.9	4106.8	4146.8	4104.4
22.5°	3954.7	3967.1	3982.1	4054.5	4044.5
25°	3834.9	3852.4	3909.7	3964.6	3922.2
27.5°	3710.1	3727.6	3797.5	3837.4	3832.4
30°	3575.4	3592.9	3680.2	3735.1	3710.1
32.5°	3435.7	3465.6	3560.4	3607.8	3560.4
35°	3298.5	3313.4	3405.7	3443.2	3420.7
37.5°	3116.3	3173.7	3266.0	3291.0	3251.0
40°	2979.1	2981.6	3113.8	3113.8	3111.3
42.5°	2801.9	2841.9	2929.2	2976.6	2951.6
45°	2649.7	2662.2	2774.5	2809.4	2801.9
47.5°	2482.6	2532.5	2614.8	2654.7	2634.8
50°	2317.9	2352.8	2437.7	2490.1	2470.1
52.5°	2165.7	2193.1	2280.5	2310.4	2290.5
55°	1981.1	2026.0	2098.3	2128.3	2110.8
57.5°	1821.4	1853.8	1943.6	1953.6	1943.6
60°	1654.2	1691.6	1764.0	1771.5	1751.5
62.5°	1494.5	1519.5	1584.4	1586.9	1564.4
65°	1324.9	1354.8	1399.7	1394.7	1372.3
67.5°	1157.7	1177.7	1220.1	1202.6	1177.7
70°	988.0	1005.5	1040.4	1015.5	993.0
72.5°	823.4	835.8	865.8	828.4	800.9
75°	661.2	666.2	688.6	641.2	601.3
77.5°	501.5	506.5	519.0	471.6	426.7
80°	356.8	356.8	361.8	311.9	281.9
82.5°	224.6	224.6	222.1	184.6	167.2
85°	117.3	114.8	112.3	89.8	82.3
87.5°	42.4	42.4	34.9	32.4	34.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)