

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: P487185

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2HI-50-120-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: P487185
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-LD4-2HI-50-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

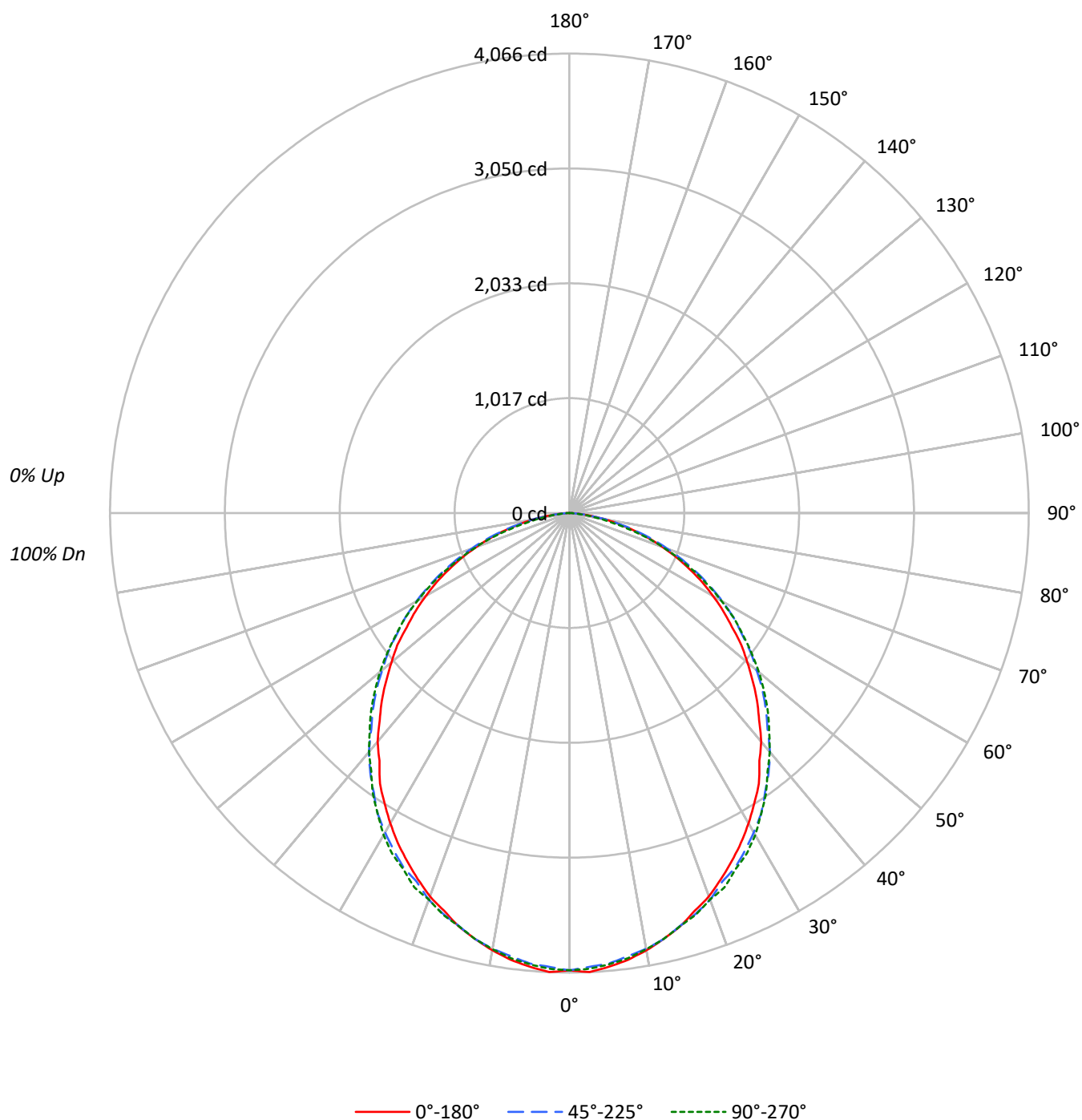
Lumens per Lamp: N/A
Luminaire Lumens: 10391.7 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	5443	5443	5443
5°	5443	5405	5413
10°	5367	5349	5355
15°	5275	5269	5272
20°	5169	5213	5210
25°	5047	5146	5162
30°	4925	5069	5110
35°	4803	4959	4981
40°	4639	4849	4845
45°	4470	4680	4727
50°	4301	4524	4584
55°	4120	4364	4390
60°	3946	4208	4179
65°	3740	3951	3873
70°	3446	3629	3463
75°	3047	3174	2771
80°	2451	2485	1937
85°	1606	1536	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.3	3.7
10°-20°	1069.3	10.3
20°-30°	1591.9	15.3
30°-40°	1873.8	18.0
40°-50°	1878.8	18.1
50°-60°	1647.5	15.9
60°-70°	1204.7	11.6
70°-80°	620.9	6.0
80°-90°	124.6	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°	3041.5	29.3
0°-40°	4915.3	47.3
0°-60°	8441.6	81.2
0°-90°	10391.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10391.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4046	4046	4046	4046	4046	
5°	4030	4004	4002	4028	4008	381
15°	3787	3794	3782	3807	3785	1066
25°	3400	3415	3466	3515	3477	1566
35°	2924	2938	3019	3052	3033	1821
45°	2349	2360	2460	2491	2484	1810
55°	1756	1796	1860	1887	1871	1577
65°	1175	1201	1241	1236	1217	1162
75°	586	591	610	568	533	621
85°	104	102	100	80	73	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4045.7	4045.7	4045.7	4045.7	4045.7
2.5°	4065.6	4045.7	4019.2	4041.3	4036.9
5°	4030.2	4003.7	4001.5	4028.0	4008.1
7.5°	3986.0	3981.6	3955.0	3983.8	3972.7
10°	3928.5	3924.1	3915.2	3935.1	3919.6
12.5°	3859.9	3855.5	3859.9	3871.0	3859.9
15°	3786.9	3793.6	3782.5	3806.8	3784.7
17.5°	3689.6	3696.2	3718.3	3727.2	3725.0
20°	3610.0	3614.4	3640.9	3676.3	3638.7
22.5°	3506.0	3517.1	3530.3	3594.5	3585.6
25°	3399.8	3415.3	3466.2	3514.8	3477.2
27.5°	3289.2	3304.7	3366.6	3402.0	3397.6
30°	3169.8	3185.3	3262.7	3311.3	3289.2
32.5°	3045.9	3072.4	3156.5	3198.5	3156.5
35°	2924.2	2937.5	3019.4	3052.5	3032.6
37.5°	2762.8	2813.6	2895.5	2917.6	2882.2
40°	2641.1	2643.3	2760.6	2760.6	2758.3
42.5°	2484.1	2519.5	2596.9	2638.9	2616.8
45°	2349.1	2360.2	2459.7	2490.7	2484.1
47.5°	2200.9	2245.2	2318.2	2353.6	2335.9
50°	2054.9	2085.9	2161.1	2207.6	2189.9
52.5°	1920.0	1944.3	2021.8	2048.3	2030.6
55°	1756.3	1796.1	1860.3	1886.8	1871.3
57.5°	1614.7	1643.5	1723.1	1732.0	1723.1
60°	1466.5	1499.7	1563.9	1570.5	1552.8
62.5°	1325.0	1347.1	1404.6	1406.8	1386.9
65°	1174.6	1201.1	1240.9	1236.5	1216.6
67.5°	1026.4	1044.1	1081.7	1066.2	1044.1
70°	875.9	891.4	922.4	900.3	880.4
72.5°	730.0	741.0	767.6	734.4	710.0
75°	586.2	590.6	610.5	568.5	533.1
77.5°	444.6	449.0	460.1	418.1	378.2
80°	316.3	316.3	320.7	276.5	250.0
82.5°	199.1	199.1	196.9	163.7	148.2
85°	104.0	101.8	99.5	79.6	73.0
87.5°	37.6	37.6	31.0	28.8	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)