

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: P487177

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2HI-27-120-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: P487177
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-27-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

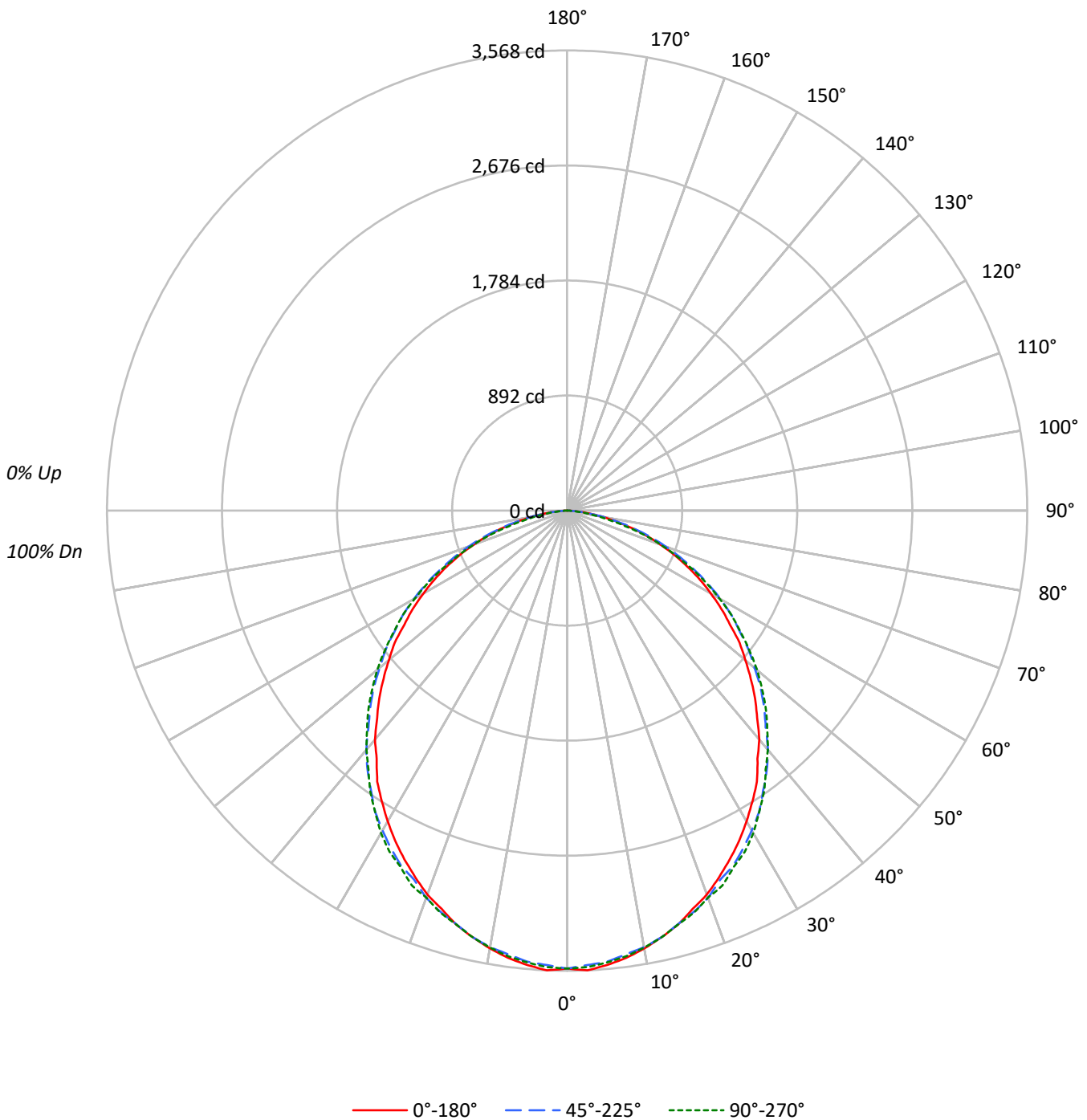
Lumens per Lamp: N/A
Luminaire Lumens: 9120.7 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
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°	4778	4778	4778
5°	4778	4744	4751
10°	4711	4695	4700
15°	4630	4624	4627
20°	4537	4576	4573
25°	4430	4516	4531
30°	4322	4449	4485
35°	4216	4353	4372
40°	4072	4256	4252
45°	3923	4108	4149
50°	3775	3970	4023
55°	3616	3830	3853
60°	3464	3694	3668
65°	3282	3467	3400
70°	3024	3185	3040
75°	2675	2785	2432
80°	2151	2181	1700
85°	1408	1349	990



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.8	3.7
10°-20°	938.5	10.3
20°-30°	1397.2	15.3
30°-40°	1644.6	18.0
40°-50°	1649.0	18.1
50°-60°	1446.0	15.9
60°-70°	1057.4	11.6
70°-80°	544.9	6.0
80°-90°	109.3	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°	2669.5	29.3
0°-40°	4314.1	47.3
0°-60°	7409.1	81.2
0°-90°	9120.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9120.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3551	3551	3551	3551	3551	
5°	3537	3514	3512	3535	3518	335
15°	3324	3330	3320	3341	3322	935
25°	2984	2998	3042	3085	3052	1375
35°	2567	2578	2650	2679	2662	1598
45°	2062	2072	2159	2186	2180	1589
55°	1542	1576	1633	1656	1642	1384
65°	1031	1054	1089	1085	1068	1020
75°	514	518	536	499	468	545
85°	91	89	87	70	64	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3550.9	3550.9	3550.9	3550.9	3550.9
2.5°	3568.4	3550.9	3527.6	3547.0	3543.1
5°	3537.3	3514.0	3512.1	3535.4	3517.9
7.5°	3498.5	3494.6	3471.3	3496.5	3486.8
10°	3448.0	3444.1	3436.3	3453.8	3440.2
12.5°	3387.8	3383.9	3387.8	3397.5	3387.8
15°	3323.7	3329.6	3319.9	3341.2	3321.8
17.5°	3238.3	3244.1	3263.6	3271.3	3269.4
20°	3168.4	3172.3	3195.6	3226.7	3193.7
22.5°	3077.2	3086.9	3098.5	3154.8	3147.1
25°	2984.0	2997.6	3042.2	3084.9	3051.9
27.5°	2886.9	2900.5	2954.9	2985.9	2982.1
30°	2782.1	2795.7	2863.6	2906.3	2886.9
32.5°	2673.4	2696.7	2770.4	2807.3	2770.4
35°	2566.6	2578.2	2650.1	2679.2	2661.7
37.5°	2424.9	2469.5	2541.3	2560.8	2529.7
40°	2318.1	2320.0	2422.9	2422.9	2421.0
42.5°	2180.2	2211.3	2279.3	2316.1	2296.7
45°	2061.8	2071.5	2158.9	2186.1	2180.2
47.5°	1931.7	1970.6	2034.6	2065.7	2050.2
50°	1803.6	1830.8	1896.8	1937.6	1922.0
52.5°	1685.2	1706.5	1774.5	1797.8	1782.2
55°	1541.5	1576.4	1632.8	1656.0	1642.5
57.5°	1417.3	1442.5	1512.4	1520.1	1512.4
60°	1287.2	1316.3	1372.6	1378.4	1362.9
62.5°	1162.9	1182.3	1232.8	1234.8	1217.3
65°	1030.9	1054.2	1089.1	1085.3	1067.8
67.5°	900.8	916.4	949.4	935.8	916.4
70°	768.8	782.4	809.6	790.2	772.7
72.5°	640.7	650.4	673.7	644.6	623.2
75°	514.5	518.4	535.8	498.9	467.9
77.5°	390.2	394.1	403.8	366.9	332.0
80°	277.6	277.6	281.5	242.7	219.4
82.5°	174.7	174.7	172.8	143.7	130.1
85°	91.2	89.3	87.4	69.9	64.1
87.5°	33.0	33.0	27.2	25.2	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)