

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: P485152

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2STD-35-120-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: P485152
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-12-4-INS-A125-LD4-2STD-35-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

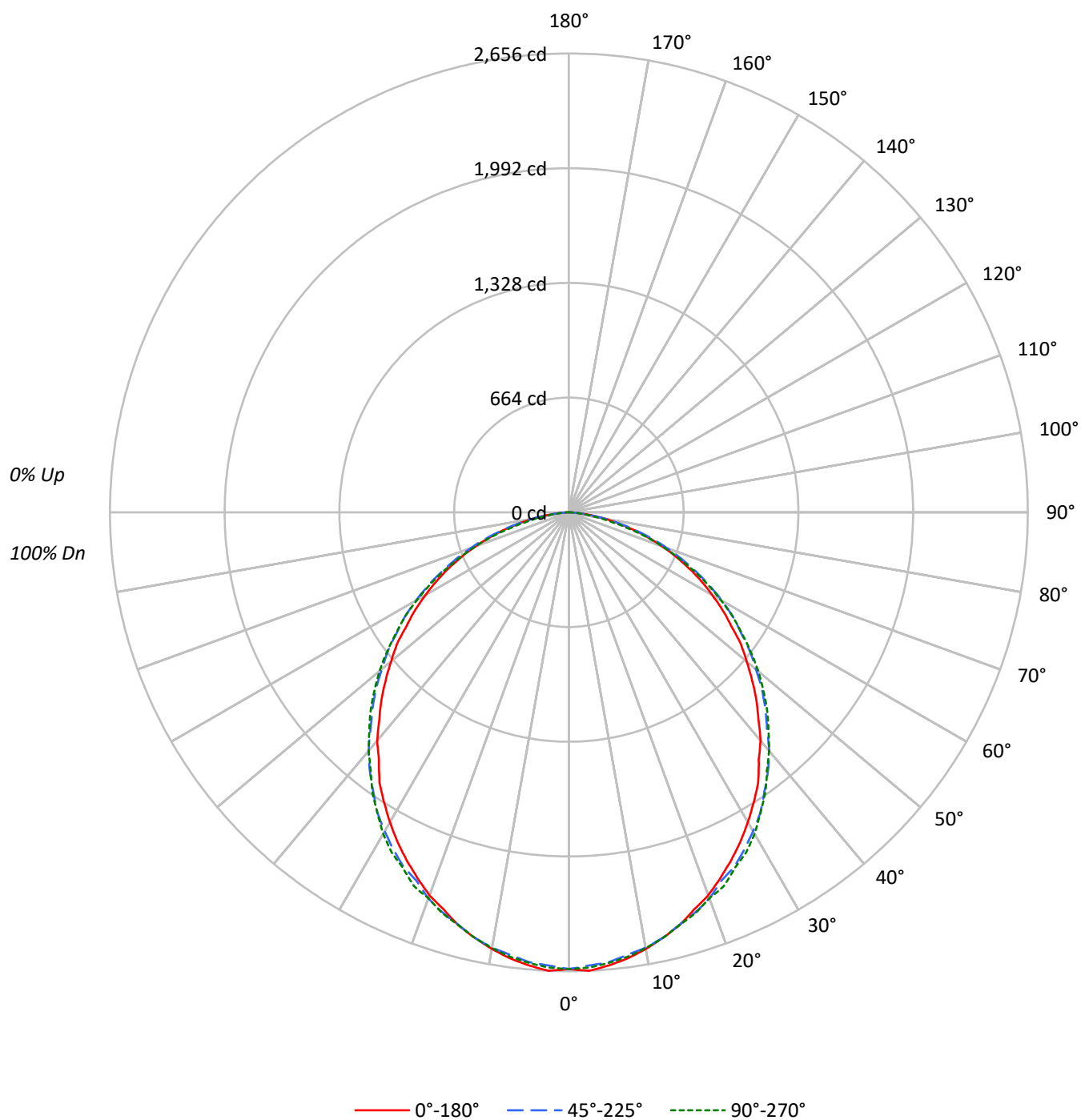
Lumens per Lamp: N/A
Luminaire Lumens: 6789.5 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	7113	7113	7113
5°	7113	7062	7074
10°	7013	6990	6998
15°	6893	6885	6889
20°	6754	6812	6808
25°	6595	6724	6746
30°	6435	6624	6678
35°	6276	6480	6509
40°	6062	6336	6331
45°	5841	6116	6177
50°	5621	5911	5990
55°	5384	5702	5736
60°	5157	5499	5460
65°	4886	5163	5061
70°	4503	4742	4526
75°	3982	4147	3621
80°	3203	3248	2531
85°	2096	2007	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.5	3.7
10°-20°	698.6	10.3
20°-30°	1040.1	15.3
30°-40°	1224.3	18.0
40°-50°	1227.5	18.1
50°-60°	1076.4	15.9
60°-70°	787.1	11.6
70°-80°	405.6	6.0
80°-90°	81.4	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°	1987.2	29.3
0°-40°	3211.5	47.3
0°-60°	5515.4	81.2
0°-90°	6789.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6789.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2643	2643	2643	2643	2643	
5°	2633	2616	2614	2632	2619	249
15°	2474	2478	2471	2487	2473	696
25°	2221	2231	2265	2296	2272	1023
35°	1911	1919	1973	1994	1981	1190
45°	1535	1542	1607	1627	1623	1183
55°	1148	1174	1215	1233	1223	1030
65°	767	785	811	808	795	759
75°	383	386	399	371	348	406
85°	68	66	65	52	48	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2643.3	2643.3	2643.3	2643.3	2643.3
2.5°	2656.3	2643.3	2626.0	2640.4	2637.5
5°	2633.2	2615.8	2614.4	2631.7	2618.7
7.5°	2604.3	2601.4	2584.1	2602.8	2595.6
10°	2566.7	2563.8	2558.0	2571.0	2560.9
12.5°	2521.9	2519.0	2521.9	2529.1	2521.9
15°	2474.2	2478.5	2471.3	2487.2	2472.8
17.5°	2410.6	2415.0	2429.4	2435.2	2433.7
20°	2358.6	2361.5	2378.8	2402.0	2377.4
22.5°	2290.7	2297.9	2306.6	2348.5	2342.7
25°	2221.3	2231.4	2264.7	2296.5	2271.9
27.5°	2149.0	2159.2	2199.6	2222.7	2219.9
30°	2071.0	2081.1	2131.7	2163.5	2149.0
32.5°	1990.1	2007.4	2062.3	2089.8	2062.3
35°	1910.6	1919.3	1972.7	1994.4	1981.4
37.5°	1805.1	1838.3	1891.8	1906.2	1883.1
40°	1725.6	1727.0	1803.6	1803.6	1802.2
42.5°	1623.0	1646.1	1696.7	1724.1	1709.7
45°	1534.8	1542.0	1607.1	1627.3	1623.0
47.5°	1438.0	1466.9	1514.6	1537.7	1526.2
50°	1342.6	1362.8	1412.0	1442.3	1430.8
52.5°	1254.4	1270.3	1320.9	1338.3	1326.7
55°	1147.5	1173.5	1215.4	1232.8	1222.7
57.5°	1055.0	1073.8	1125.8	1131.6	1125.8
60°	958.2	979.9	1021.8	1026.1	1014.5
62.5°	865.7	880.1	917.7	919.2	906.2
65°	767.4	784.8	810.8	807.9	794.9
67.5°	670.6	682.1	706.7	696.6	682.1
70°	572.3	582.4	602.7	588.2	575.2
72.5°	476.9	484.1	501.5	479.8	463.9
75°	383.0	385.9	398.9	371.4	348.3
77.5°	290.5	293.4	300.6	273.1	247.1
80°	206.7	206.7	209.6	180.7	163.3
82.5°	130.1	130.1	128.6	106.9	96.8
85°	67.9	66.5	65.0	52.0	47.7
87.5°	24.6	24.6	20.2	18.8	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)