

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: P485150

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2STD-30-120-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: P485150
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-30-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

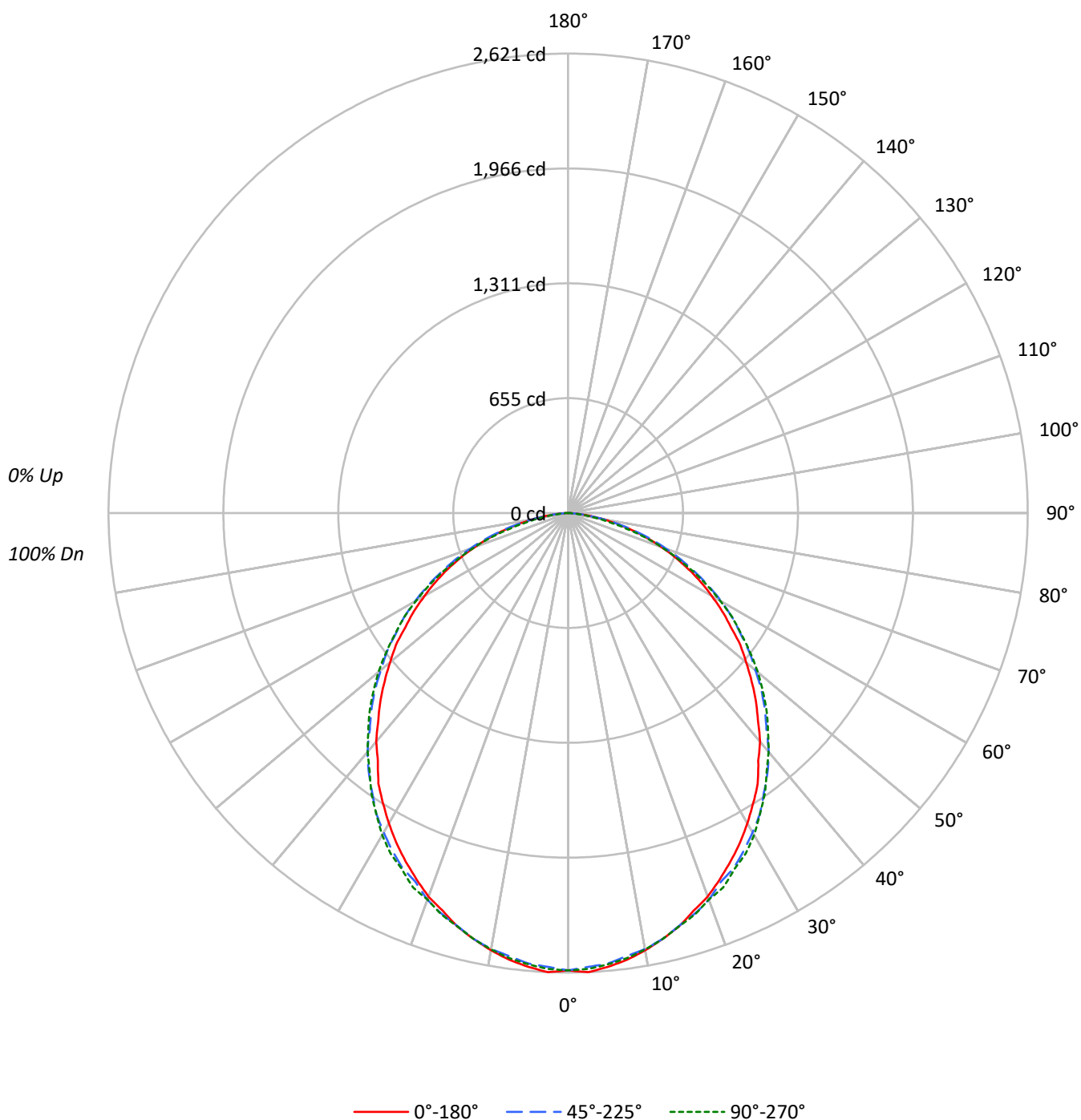
Lumens per Lamp: N/A
Luminaire Lumens: 6699.9 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					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°	7019	7019	7019
5°	7019	6969	6981
10°	6921	6898	6905
15°	6802	6794	6798
20°	6665	6722	6718
25°	6508	6635	6657
30°	6350	6536	6590
35°	6194	6395	6423
40°	5982	6252	6247
45°	5764	6035	6095
50°	5547	5833	5911
55°	5313	5627	5660
60°	5089	5427	5388
65°	4822	5095	4995
70°	4444	4679	4466
75°	3929	4092	3573
80°	3160	3205	2498
85°	2069	1982	1454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.2	3.7
10°-20°	689.4	10.3
20°-30°	1026.4	15.3
30°-40°	1208.1	18.0
40°-50°	1211.3	18.1
50°-60°	1062.2	15.9
60°-70°	776.7	11.6
70°-80°	400.3	6.0
80°-90°	80.3	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°	1961.0	29.3
0°-40°	3169.1	47.3
0°-60°	5442.6	81.2
0°-90°	6699.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6699.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2608	2608	2608	2608	2608	
5°	2598	2581	2580	2597	2584	246
15°	2442	2446	2439	2454	2440	687
25°	2192	2202	2235	2266	2242	1010
35°	1885	1894	1947	1968	1955	1174
45°	1515	1522	1586	1606	1602	1167
55°	1132	1158	1199	1216	1206	1016
65°	757	774	800	797	784	749
75°	378	381	394	366	344	400
85°	67	66	64	51	47	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2608.4	2608.4	2608.4	2608.4	2608.4
2.5°	2621.3	2608.4	2591.3	2605.6	2602.7
5°	2598.4	2581.3	2579.9	2597.0	2584.2
7.5°	2569.9	2567.1	2549.9	2568.5	2561.4
10°	2532.8	2530.0	2524.3	2537.1	2527.1
12.5°	2488.6	2485.8	2488.6	2495.8	2488.6
15°	2441.6	2445.8	2438.7	2454.4	2440.1
17.5°	2378.8	2383.1	2397.4	2403.1	2401.6
20°	2327.5	2330.3	2347.4	2370.3	2346.0
22.5°	2260.4	2267.6	2276.1	2317.5	2311.8
25°	2192.0	2202.0	2234.8	2266.1	2241.9
27.5°	2120.7	2130.7	2170.6	2193.4	2190.6
30°	2043.7	2053.7	2103.6	2134.9	2120.7
32.5°	1963.8	1980.9	2035.1	2062.2	2035.1
35°	1885.4	1893.9	1946.7	1968.1	1955.2
37.5°	1781.3	1814.1	1866.8	1881.1	1858.3
40°	1702.8	1704.2	1779.8	1779.8	1778.4
42.5°	1601.6	1624.4	1674.3	1701.4	1687.1
45°	1514.6	1521.7	1585.9	1605.8	1601.6
47.5°	1419.0	1447.5	1494.6	1517.4	1506.0
50°	1324.9	1344.9	1393.3	1423.3	1411.9
52.5°	1237.9	1253.6	1303.5	1320.6	1309.2
55°	1132.4	1158.0	1199.4	1216.5	1206.5
57.5°	1041.1	1059.6	1111.0	1116.7	1111.0
60°	945.5	966.9	1008.3	1012.6	1001.2
62.5°	854.3	868.5	905.6	907.0	894.2
65°	757.3	774.4	800.1	797.2	784.4
67.5°	661.7	673.1	697.4	687.4	673.1
70°	564.8	574.7	594.7	580.4	567.6
72.5°	470.6	477.8	494.9	473.5	457.8
75°	377.9	380.8	393.6	366.5	343.7
77.5°	286.7	289.5	296.6	269.5	243.9
80°	203.9	203.9	206.8	178.3	161.2
82.5°	128.4	128.4	126.9	105.5	95.6
85°	67.0	65.6	64.2	51.3	47.1
87.5°	24.2	24.2	20.0	18.5	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)