

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: P485176

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3LO-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: P485176
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-LD4-3LO-35-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

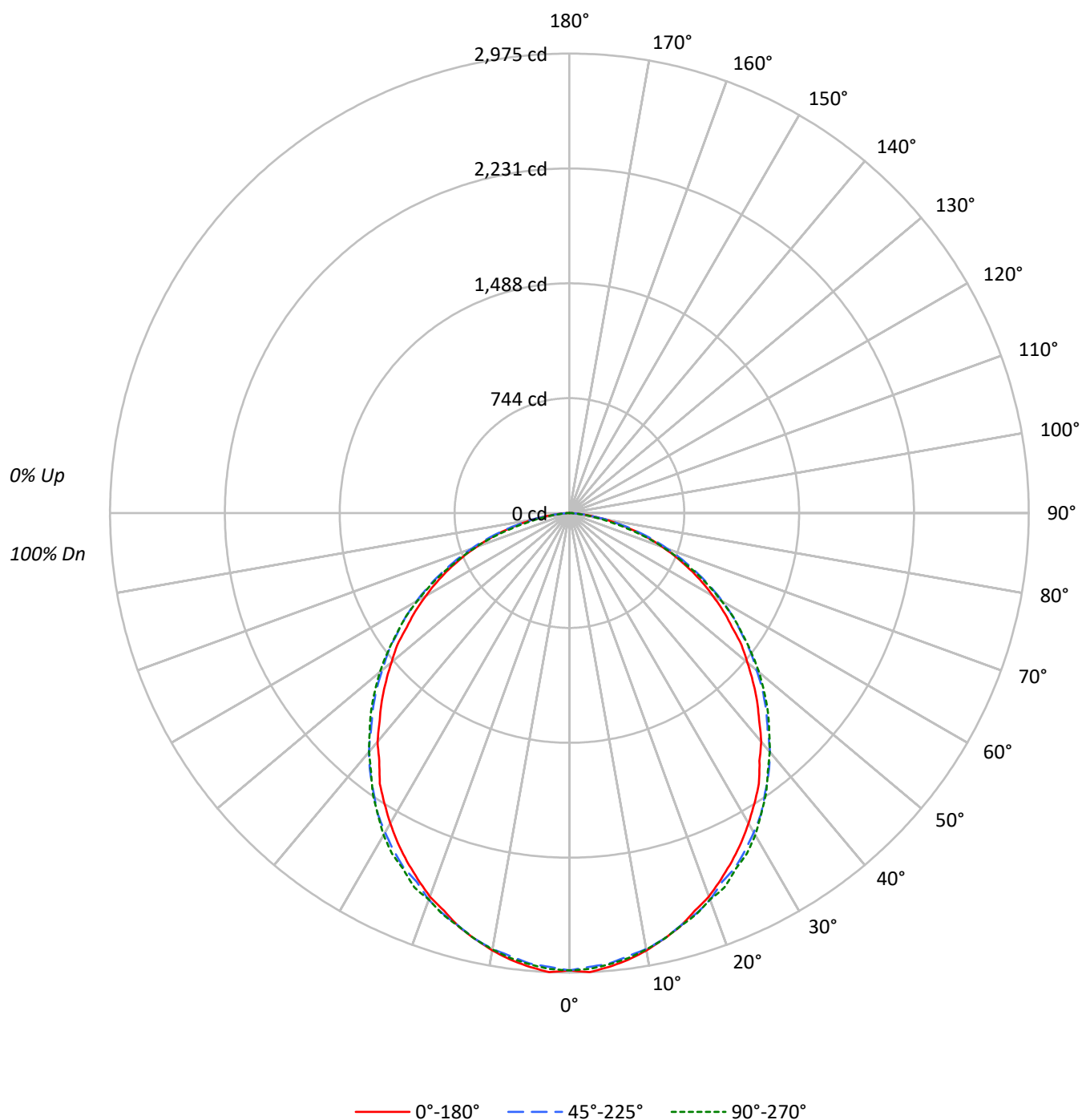
Lumens per Lamp: N/A
Luminaire Lumens: 7604.9 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	7967	7967	7967
5°	7967	7910	7923
10°	7856	7829	7838
15°	7721	7712	7716
20°	7566	7630	7626
25°	7388	7532	7556
30°	7208	7419	7480
35°	7030	7259	7291
40°	6790	7097	7091
45°	6542	6850	6918
50°	6296	6621	6709
55°	6030	6387	6425
60°	5776	6160	6116
65°	5473	5782	5669
70°	5043	5311	5069
75°	4460	4645	4056
80°	3587	3637	2834
85°	2350	2248	1649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.3	3.7
10°-20°	782.5	10.3
20°-30°	1165.0	15.3
30°-40°	1371.3	18.0
40°-50°	1374.9	18.1
50°-60°	1205.7	15.9
60°-70°	881.6	11.6
70°-80°	454.3	6.0
80°-90°	91.2	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°	2225.8	29.3
0°-40°	3597.2	47.3
0°-60°	6177.8	81.2
0°-90°	7604.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7604.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2961	2961	2961	2961	2961	
5°	2949	2930	2928	2948	2933	279
15°	2771	2776	2768	2786	2770	780
25°	2488	2499	2537	2572	2545	1146
35°	2140	2150	2210	2234	2219	1333
45°	1719	1727	1800	1823	1818	1325
55°	1285	1314	1361	1381	1370	1154
65°	860	879	908	905	890	850
75°	429	432	447	416	390	455
85°	76	74	73	58	53	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2960.8	2960.8	2960.8	2960.8	2960.8
2.5°	2975.3	2960.8	2941.3	2957.5	2954.3
5°	2949.4	2930.0	2928.4	2947.8	2933.2
7.5°	2917.1	2913.8	2894.4	2915.4	2907.3
10°	2875.0	2871.7	2865.2	2879.8	2868.5
12.5°	2824.8	2821.5	2824.8	2832.9	2824.8
15°	2771.4	2776.2	2768.1	2785.9	2769.7
17.5°	2700.1	2705.0	2721.2	2727.7	2726.0
20°	2641.9	2645.1	2664.5	2690.4	2662.9
22.5°	2565.8	2573.9	2583.6	2630.5	2624.1
25°	2488.1	2499.4	2536.6	2572.2	2544.7
27.5°	2407.1	2418.5	2463.8	2489.7	2486.5
30°	2319.7	2331.1	2387.7	2423.3	2407.1
32.5°	2229.1	2248.5	2310.0	2340.8	2310.0
35°	2140.0	2149.7	2209.6	2233.9	2219.4
37.5°	2021.9	2059.1	2119.0	2135.2	2109.3
40°	1932.8	1934.4	2020.2	2020.2	2018.6
42.5°	1817.9	1843.8	1900.5	1931.2	1915.0
45°	1719.1	1727.2	1800.1	1822.8	1817.9
47.5°	1610.7	1643.1	1696.5	1722.4	1709.4
50°	1503.9	1526.5	1581.6	1615.5	1602.6
52.5°	1405.1	1422.9	1479.6	1499.0	1486.0
55°	1285.3	1314.5	1361.4	1380.8	1369.5
57.5°	1181.7	1202.8	1261.0	1267.5	1261.0
60°	1073.3	1097.5	1144.5	1149.3	1136.4
62.5°	969.7	985.8	1027.9	1029.5	1015.0
65°	859.6	879.0	908.1	904.9	890.3
67.5°	751.1	764.1	791.6	780.3	764.1
70°	641.0	652.4	675.0	658.8	644.3
72.5°	534.2	542.3	561.7	537.4	519.6
75°	429.0	432.2	446.8	416.0	390.1
77.5°	325.4	328.6	336.7	306.0	276.8
80°	231.5	231.5	234.7	202.3	182.9
82.5°	145.7	145.7	144.1	119.8	108.5
85°	76.1	74.5	72.8	58.3	53.4
87.5°	27.5	27.5	22.7	21.0	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)