

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: P485178

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3LO-40-120-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: P485178
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-40-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

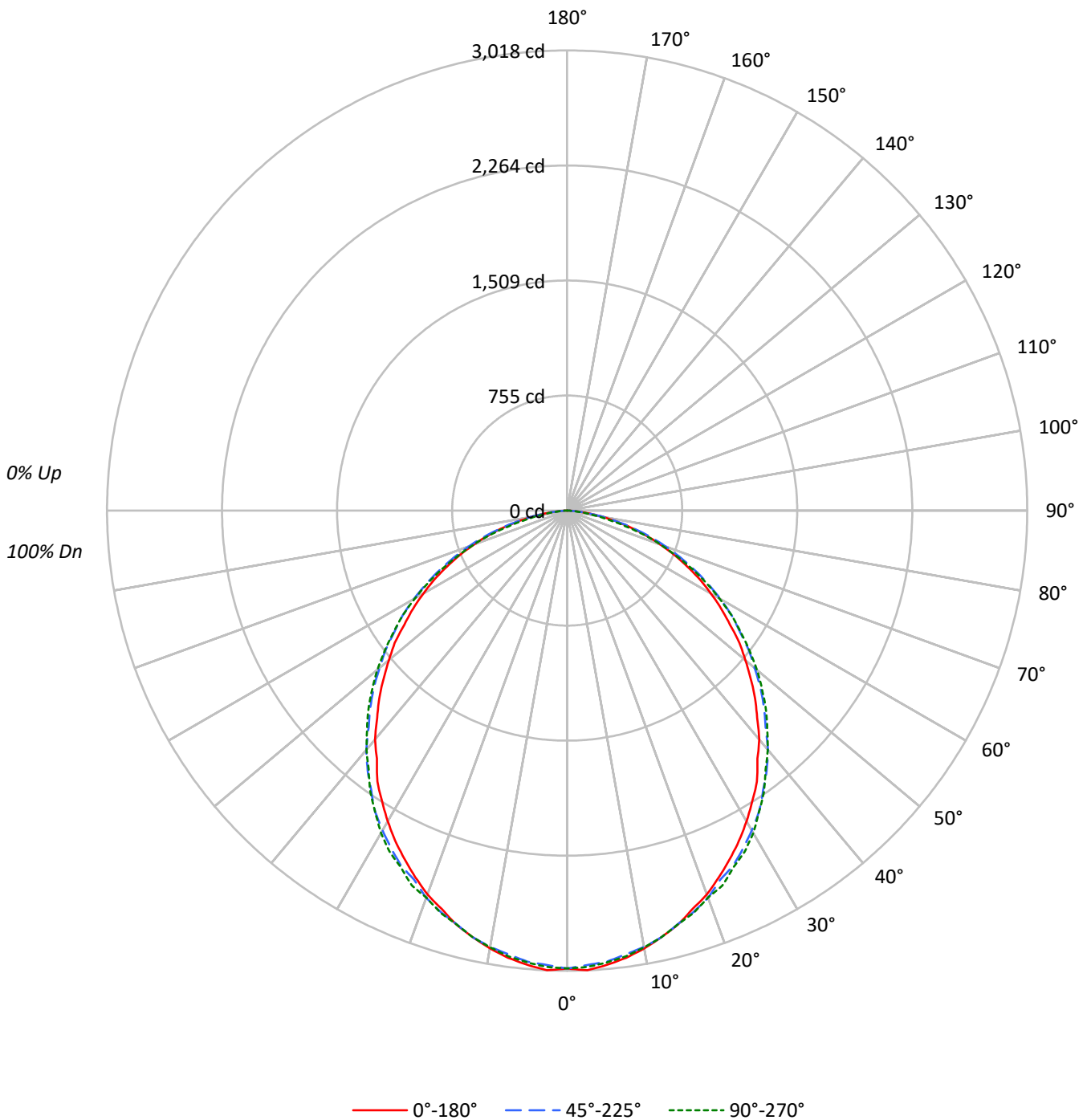
Lumens per Lamp: N/A
Luminaire Lumens: 7712.9 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
Input Voltage (V): NR
Input Current (A_{in}): 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°	8080	8080	8080
5°	8080	8023	8036
10°	7967	7940	7949
15°	7830	7821	7826
20°	7673	7739	7734
25°	7492	7639	7663
30°	7310	7525	7586
35°	7130	7362	7394
40°	6886	7197	7192
45°	6635	6948	7016
50°	6385	6715	6805
55°	6116	6478	6516
60°	5858	6247	6203
65°	5551	5864	5750
70°	5115	5386	5141
75°	4524	4711	4114
80°	3639	3690	2875
85°	2384	2282	1673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.2	3.7
10°-20°	793.6	10.3
20°-30°	1181.6	15.3
30°-40°	1390.8	18.0
40°-50°	1394.4	18.1
50°-60°	1222.8	15.9
60°-70°	894.1	11.6
70°-80°	460.8	6.0
80°-90°	92.5	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°	2257.5	29.3
0°-40°	3648.2	47.3
0°-60°	6265.5	81.2
0°-90°	7712.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7712.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3003	3003	3003	3003	3003	
5°	2991	2972	2970	2990	2975	283
15°	2811	2816	2807	2826	2809	791
25°	2523	2535	2573	2609	2581	1162
35°	2170	2180	2241	2266	2251	1352
45°	1744	1752	1826	1849	1844	1344
55°	1304	1333	1381	1400	1389	1170
65°	872	892	921	918	903	862
75°	435	438	453	422	396	461
85°	77	76	74	59	54	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3002.8	3002.8	3002.8	3002.8	3002.8
2.5°	3017.6	3002.8	2983.1	2999.5	2996.2
5°	2991.3	2971.6	2970.0	2989.7	2974.9
7.5°	2958.5	2955.2	2935.5	2956.8	2948.6
10°	2915.8	2912.5	2905.9	2920.7	2909.2
12.5°	2864.9	2861.6	2864.9	2873.1	2864.9
15°	2810.7	2815.6	2807.4	2825.5	2809.1
17.5°	2738.5	2743.4	2759.8	2766.4	2764.7
20°	2679.4	2682.7	2702.4	2728.6	2700.7
22.5°	2602.2	2610.4	2620.3	2667.9	2661.3
25°	2523.4	2534.9	2572.7	2608.8	2580.9
27.5°	2441.3	2452.8	2498.8	2525.0	2521.8
30°	2352.7	2364.2	2421.6	2457.7	2441.3
32.5°	2260.7	2280.4	2342.8	2374.0	2342.8
35°	2170.4	2180.3	2241.0	2265.6	2250.9
37.5°	2050.6	2088.3	2149.1	2165.5	2139.2
40°	1960.3	1961.9	2048.9	2048.9	2047.3
42.5°	1843.7	1870.0	1927.4	1958.6	1942.2
45°	1743.6	1751.8	1825.7	1848.6	1843.7
47.5°	1633.6	1666.4	1720.6	1746.8	1733.7
50°	1525.2	1548.2	1604.0	1638.5	1625.4
52.5°	1425.1	1443.1	1500.6	1520.3	1507.1
55°	1303.6	1333.1	1380.7	1400.4	1388.9
57.5°	1198.5	1219.8	1278.9	1285.5	1278.9
60°	1088.5	1113.1	1160.7	1165.7	1152.5
62.5°	983.4	999.8	1042.5	1044.2	1029.4
65°	871.8	891.5	921.0	917.8	903.0
67.5°	761.8	774.9	802.8	791.3	774.9
70°	650.1	661.6	684.6	668.2	653.4
72.5°	541.8	550.0	569.7	545.1	527.0
75°	435.1	438.4	453.1	421.9	395.7
77.5°	330.0	333.3	341.5	310.3	280.7
80°	234.8	234.8	238.1	205.2	185.5
82.5°	147.8	147.8	146.1	121.5	110.0
85°	77.2	75.5	73.9	59.1	54.2
87.5°	27.9	27.9	23.0	21.3	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)