

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: P485172

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3LO-27-120-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: P485172
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-27-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

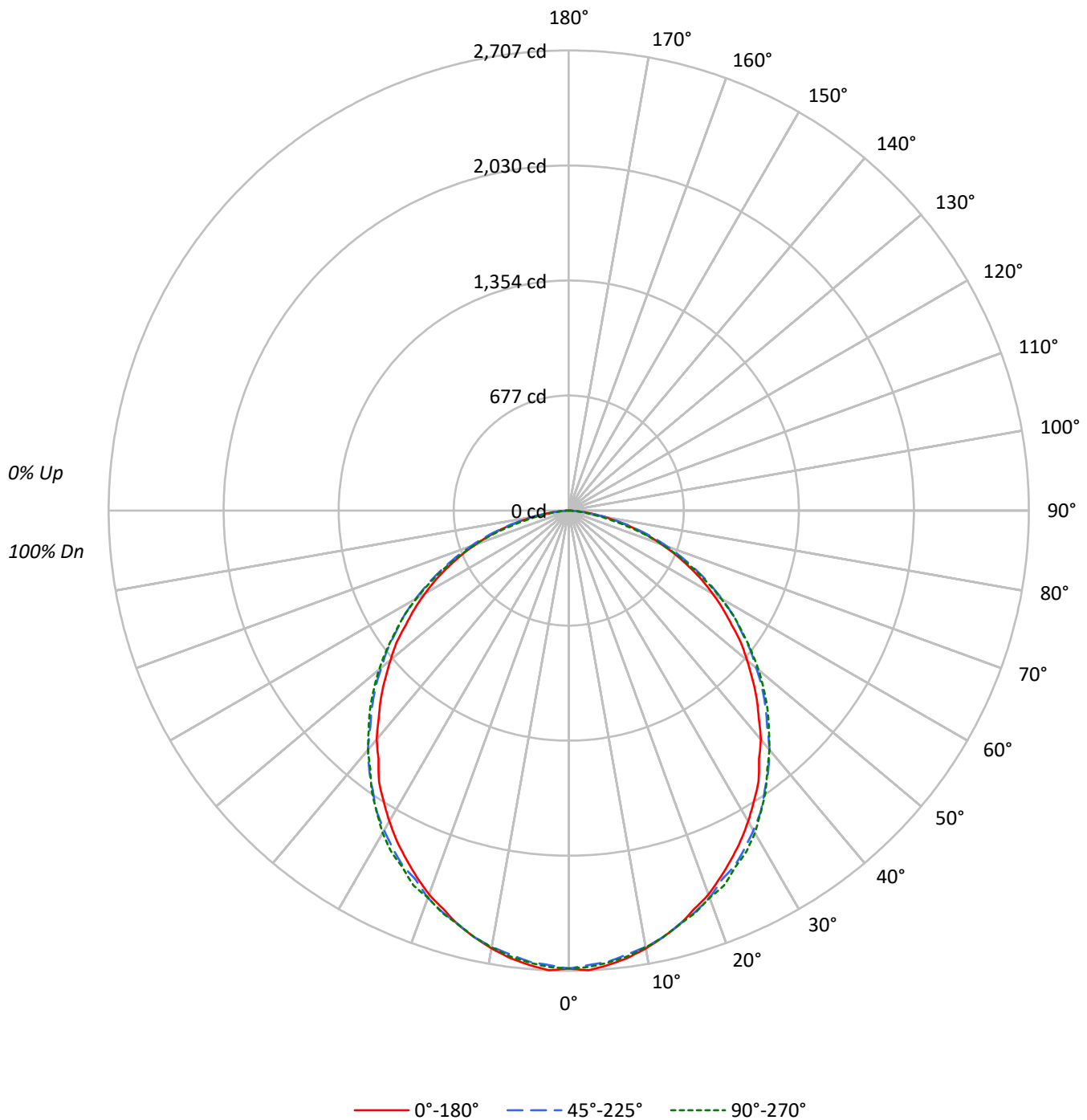
Lumens per Lamp: N/A
Luminaire Lumens: 6918.4 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					10
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°	7248	7248	7248
5°	7248	7196	7208
10°	7147	7123	7130
15°	7024	7015	7020
20°	6883	6942	6937
25°	6721	6852	6874
30°	6557	6750	6804
35°	6396	6604	6633
40°	6177	6456	6451
45°	5952	6232	6294
50°	5727	6023	6103
55°	5486	5811	5845
60°	5255	5604	5564
65°	4979	5261	5158
70°	4589	4832	4611
75°	4058	4226	3690
80°	3264	3309	2579
85°	2137	2047	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.2	3.7
10°-20°	711.9	10.3
20°-30°	1059.9	15.3
30°-40°	1247.5	18.0
40°-50°	1250.8	18.1
50°-60°	1096.9	15.9
60°-70°	802.0	11.6
70°-80°	413.3	6.0
80°-90°	82.9	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°	2024.9	29.3
0°-40°	3272.4	47.3
0°-60°	5620.1	81.2
0°-90°	6918.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6918.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2694	2694	2694	2694	2694	
5°	2683	2666	2664	2682	2668	254
15°	2521	2526	2518	2534	2520	710
25°	2264	2274	2308	2340	2315	1043
35°	1947	1956	2010	2032	2019	1212
45°	1564	1571	1638	1658	1654	1205
55°	1169	1196	1238	1256	1246	1050
65°	782	800	826	823	810	774
75°	390	393	406	378	355	414
85°	69	68	66	53	49	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2693.5	2693.5	2693.5	2693.5	2693.5
2.5°	2706.7	2693.5	2675.8	2690.5	2687.6
5°	2683.2	2665.5	2664.0	2681.7	2668.5
7.5°	2653.7	2650.8	2633.1	2652.3	2644.9
10°	2615.4	2612.5	2606.6	2619.9	2609.5
12.5°	2569.8	2566.8	2569.8	2577.1	2569.8
15°	2521.2	2525.6	2518.2	2534.4	2519.7
17.5°	2456.4	2460.8	2475.5	2481.4	2480.0
20°	2403.4	2406.3	2424.0	2447.6	2422.5
22.5°	2334.2	2341.5	2350.4	2393.1	2387.2
25°	2263.5	2273.8	2307.7	2340.1	2315.0
27.5°	2189.8	2200.1	2241.4	2264.9	2262.0
30°	2110.3	2120.6	2172.2	2204.6	2189.8
32.5°	2027.8	2045.5	2101.5	2129.5	2101.5
35°	1946.9	1955.7	2010.2	2032.3	2019.0
37.5°	1839.3	1873.2	1927.7	1942.4	1918.9
40°	1758.4	1759.8	1837.9	1837.9	1836.4
42.5°	1653.8	1677.4	1728.9	1756.9	1742.2
45°	1564.0	1571.3	1637.6	1658.2	1653.8
47.5°	1465.3	1494.7	1543.3	1566.9	1555.1
50°	1368.1	1388.7	1438.8	1469.7	1457.9
52.5°	1278.3	1294.5	1346.0	1363.7	1351.9
55°	1169.3	1195.8	1238.5	1256.2	1245.9
57.5°	1075.0	1094.2	1147.2	1153.1	1147.2
60°	976.4	998.5	1041.2	1045.6	1033.8
62.5°	882.1	896.8	935.1	936.6	923.4
65°	782.0	799.7	826.2	823.2	810.0
67.5°	683.3	695.1	720.1	709.8	695.1
70°	583.2	593.5	614.1	599.4	586.1
72.5°	486.0	493.3	511.0	488.9	472.7
75°	390.3	393.2	406.5	378.5	354.9
77.5°	296.0	298.9	306.3	278.3	251.8
80°	210.6	210.6	213.5	184.1	166.4
82.5°	132.5	132.5	131.1	109.0	98.7
85°	69.2	67.7	66.3	53.0	48.6
87.5°	25.0	25.0	20.6	19.1	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)