

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: P485182

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3STD-20-120-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: P485182
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-LD4-3STD-20-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

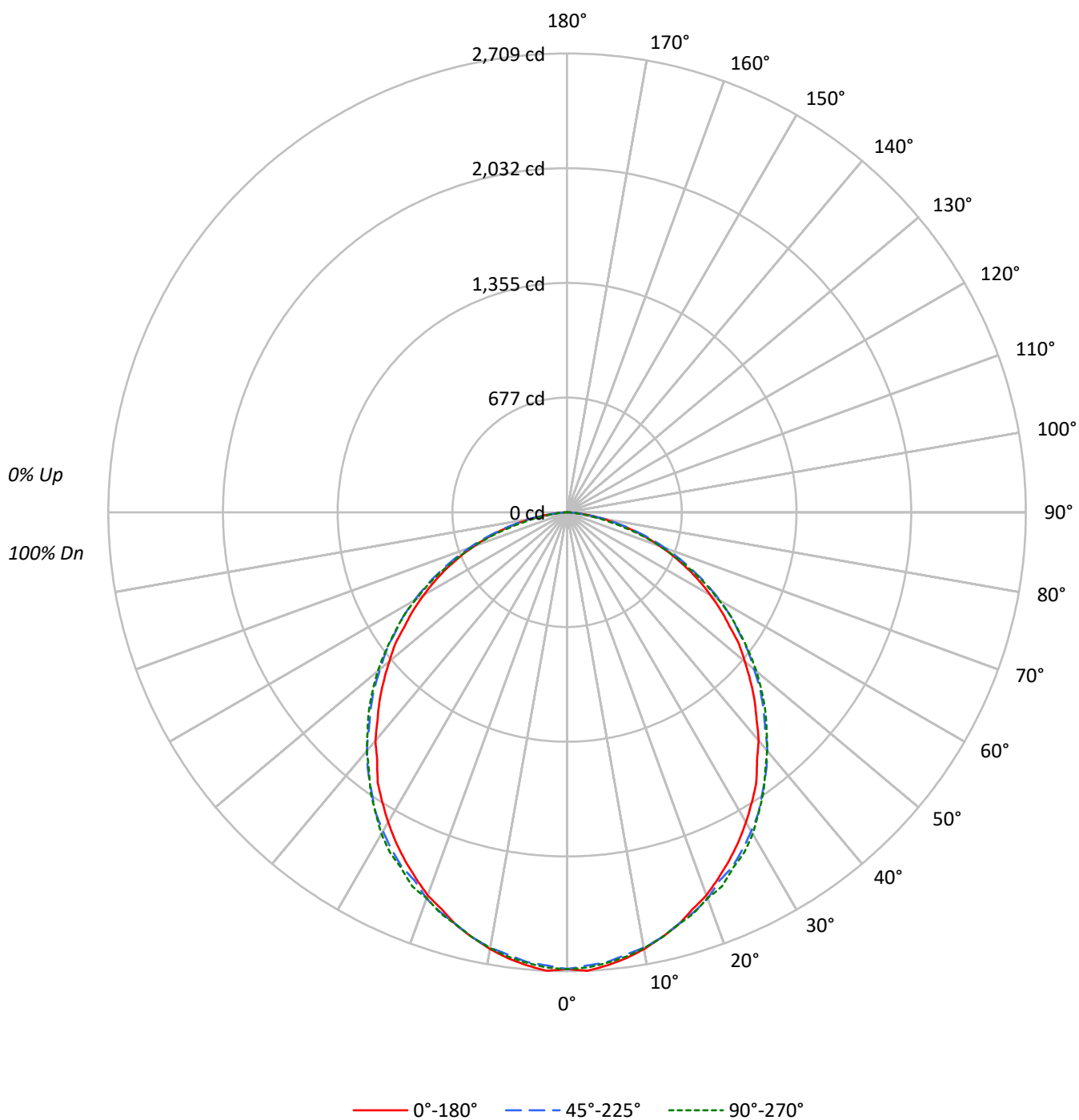
Lumens per Lamp: N/A
Luminaire Lumens: 6925.2 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	7255	7255	7255
5°	7255	7203	7215
10°	7154	7130	7138
15°	7031	7022	7027
20°	6889	6948	6944
25°	6727	6858	6880
30°	6564	6756	6811
35°	6402	6610	6639
40°	6183	6463	6457
45°	5958	6238	6300
50°	5733	6029	6110
55°	5491	5816	5851
60°	5260	5609	5569
65°	4984	5266	5163
70°	4592	4836	4616
75°	4061	4231	3694
80°	3267	3312	2582
85°	2140	2047	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.4	3.7
10°-20°	712.6	10.3
20°-30°	1060.9	15.3
30°-40°	1248.8	18.0
40°-50°	1252.0	18.1
50°-60°	1097.9	15.9
60°-70°	802.8	11.6
70°-80°	413.7	6.0
80°-90°	83.0	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°	2026.9	29.3
0°-40°	3275.7	47.3
0°-60°	5625.6	81.2
0°-90°	6925.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6925.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2696	2696	2696	2696	2696	
5°	2686	2668	2667	2684	2671	254
15°	2524	2528	2521	2537	2522	710
25°	2266	2276	2310	2342	2317	1044
35°	1949	1958	2012	2034	2021	1214
45°	1566	1573	1639	1660	1655	1206
55°	1170	1197	1240	1257	1247	1051
65°	783	800	827	824	811	774
75°	391	394	407	379	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°	2696.1	2696.1	2696.1	2696.1	2696.1
2.5°	2709.4	2696.1	2678.4	2693.2	2690.2
5°	2685.8	2668.1	2666.7	2684.3	2671.1
7.5°	2656.3	2653.4	2635.7	2654.9	2647.5
10°	2618.0	2615.1	2609.2	2622.4	2612.1
12.5°	2572.3	2569.4	2572.3	2579.7	2572.3
15°	2523.7	2528.1	2520.7	2536.9	2522.2
17.5°	2458.8	2463.2	2478.0	2483.9	2482.4
20°	2405.7	2408.7	2426.4	2450.0	2424.9
22.5°	2336.5	2343.8	2352.7	2395.4	2389.5
25°	2265.7	2276.0	2309.9	2342.4	2317.3
27.5°	2192.0	2202.3	2243.6	2267.2	2264.2
30°	2112.4	2122.7	2174.3	2206.7	2192.0
32.5°	2029.8	2047.5	2103.5	2131.6	2103.5
35°	1948.8	1957.6	2012.2	2034.3	2021.0
37.5°	1841.2	1875.1	1929.6	1944.3	1920.8
40°	1760.1	1761.6	1839.7	1839.7	1838.2
42.5°	1655.4	1679.0	1730.6	1758.6	1743.9
45°	1565.5	1572.9	1639.2	1659.8	1655.4
47.5°	1466.7	1496.2	1544.9	1568.4	1556.7
50°	1369.4	1390.1	1440.2	1471.2	1459.4
52.5°	1279.5	1295.7	1347.3	1365.0	1353.2
55°	1170.4	1197.0	1239.7	1257.4	1247.1
57.5°	1076.1	1095.3	1148.3	1154.2	1148.3
60°	977.3	999.4	1042.2	1046.6	1034.8
62.5°	883.0	897.7	936.1	937.5	924.3
65°	782.7	800.4	827.0	824.0	810.8
67.5°	684.0	695.8	720.8	710.5	695.8
70°	583.7	594.1	614.7	600.0	586.7
72.5°	486.5	493.8	511.5	489.4	473.2
75°	390.6	393.6	406.9	378.8	355.3
77.5°	296.3	299.2	306.6	278.6	252.1
80°	210.8	210.8	213.7	184.3	166.6
82.5°	132.7	132.7	131.2	109.1	98.8
85°	69.3	67.8	66.3	53.1	48.6
87.5°	25.1	25.1	20.6	19.2	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)