

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: P485154

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2STD-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: P485154
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-40-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

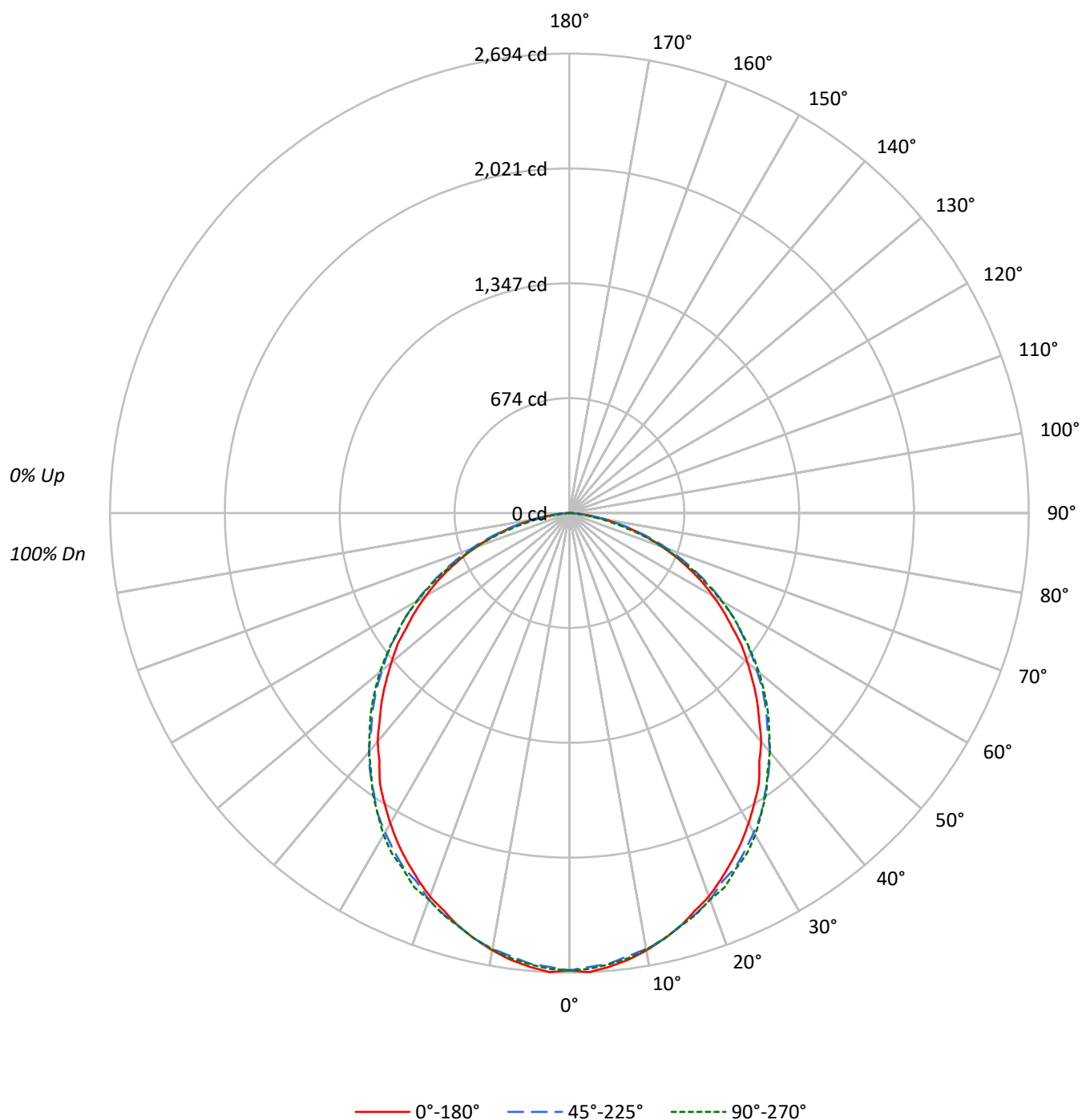
Lumens per Lamp: N/A
Luminaire Lumens: 6885.9 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	7214	7214	7214
5°	7214	7162	7174
10°	7113	7089	7097
15°	6991	6983	6987
20°	6850	6909	6905
25°	6689	6820	6841
30°	6527	6718	6773
35°	6365	6572	6601
40°	6148	6426	6421
45°	5924	6203	6264
50°	5701	5995	6075
55°	5460	5783	5818
60°	5230	5577	5537
65°	4956	5236	5133
70°	4567	4809	4590
75°	4038	4206	3672
80°	3248	3293	2566
85°	2127	2038	1494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.0	3.7
10°-20°	708.5	10.3
20°-30°	1054.9	15.3
30°-40°	1241.7	18.0
40°-50°	1244.9	18.1
50°-60°	1091.7	15.9
60°-70°	798.3	11.6
70°-80°	411.4	6.0
80°-90°	82.5	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°	2015.4	29.3
0°-40°	3257.1	47.3
0°-60°	5593.7	81.2
0°-90°	6885.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6885.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2681	2681	2681	2681	2681	
5°	2671	2653	2652	2669	2656	253
15°	2509	2514	2506	2522	2508	706
25°	2253	2263	2297	2329	2304	1038
35°	1938	1946	2001	2023	2010	1207
45°	1557	1564	1630	1650	1646	1200
55°	1164	1190	1233	1250	1240	1045
65°	778	796	822	819	806	770
75°	388	391	404	377	353	412
85°	69	67	66	53	48	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2680.8	2680.8	2680.8	2680.8	2680.8
2.5°	2694.0	2680.8	2663.2	2677.9	2675.0
5°	2670.6	2653.0	2651.5	2669.1	2655.9
7.5°	2641.3	2638.3	2620.7	2639.8	2632.5
10°	2603.2	2600.2	2594.4	2607.5	2597.3
12.5°	2557.7	2554.8	2557.7	2565.0	2557.7
15°	2509.3	2513.7	2506.4	2522.5	2507.9
17.5°	2444.9	2449.2	2463.9	2469.8	2468.3
20°	2392.1	2395.0	2412.6	2436.1	2411.1
22.5°	2323.2	2330.5	2339.3	2381.8	2376.0
25°	2252.8	2263.1	2296.8	2329.1	2304.1
27.5°	2179.6	2189.8	2230.9	2254.3	2251.4
30°	2100.4	2110.7	2162.0	2194.2	2179.6
32.5°	2018.3	2035.9	2091.6	2119.5	2091.6
35°	1937.7	1946.5	2000.7	2022.7	2009.5
37.5°	1830.7	1864.4	1918.7	1933.3	1909.9
40°	1750.1	1751.6	1829.2	1829.2	1827.8
42.5°	1646.0	1669.5	1720.8	1748.6	1734.0
45°	1556.6	1563.9	1629.9	1650.4	1646.0
47.5°	1458.4	1487.7	1536.1	1559.5	1547.8
50°	1361.7	1382.2	1432.0	1462.8	1451.1
52.5°	1272.3	1288.4	1339.7	1357.3	1345.5
55°	1163.8	1190.2	1232.7	1250.3	1240.0
57.5°	1070.0	1089.0	1141.8	1147.7	1141.8
60°	971.8	993.8	1036.3	1040.7	1028.9
62.5°	878.0	892.6	930.7	932.2	919.0
65°	778.3	795.9	822.3	819.3	806.2
67.5°	680.1	691.8	716.7	706.5	691.8
70°	580.4	590.7	611.2	596.6	583.4
72.5°	483.7	491.0	508.6	486.6	470.5
75°	388.4	391.4	404.5	376.7	353.2
77.5°	294.6	297.5	304.9	277.0	250.6
80°	209.6	209.6	212.5	183.2	165.6
82.5°	131.9	131.9	130.5	108.5	98.2
85°	68.9	67.4	66.0	52.8	48.4
87.5°	24.9	24.9	20.5	19.1	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)