

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: P485958

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4HI-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: P485958
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-24-2-INS-A125-LD4-4HI-40-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

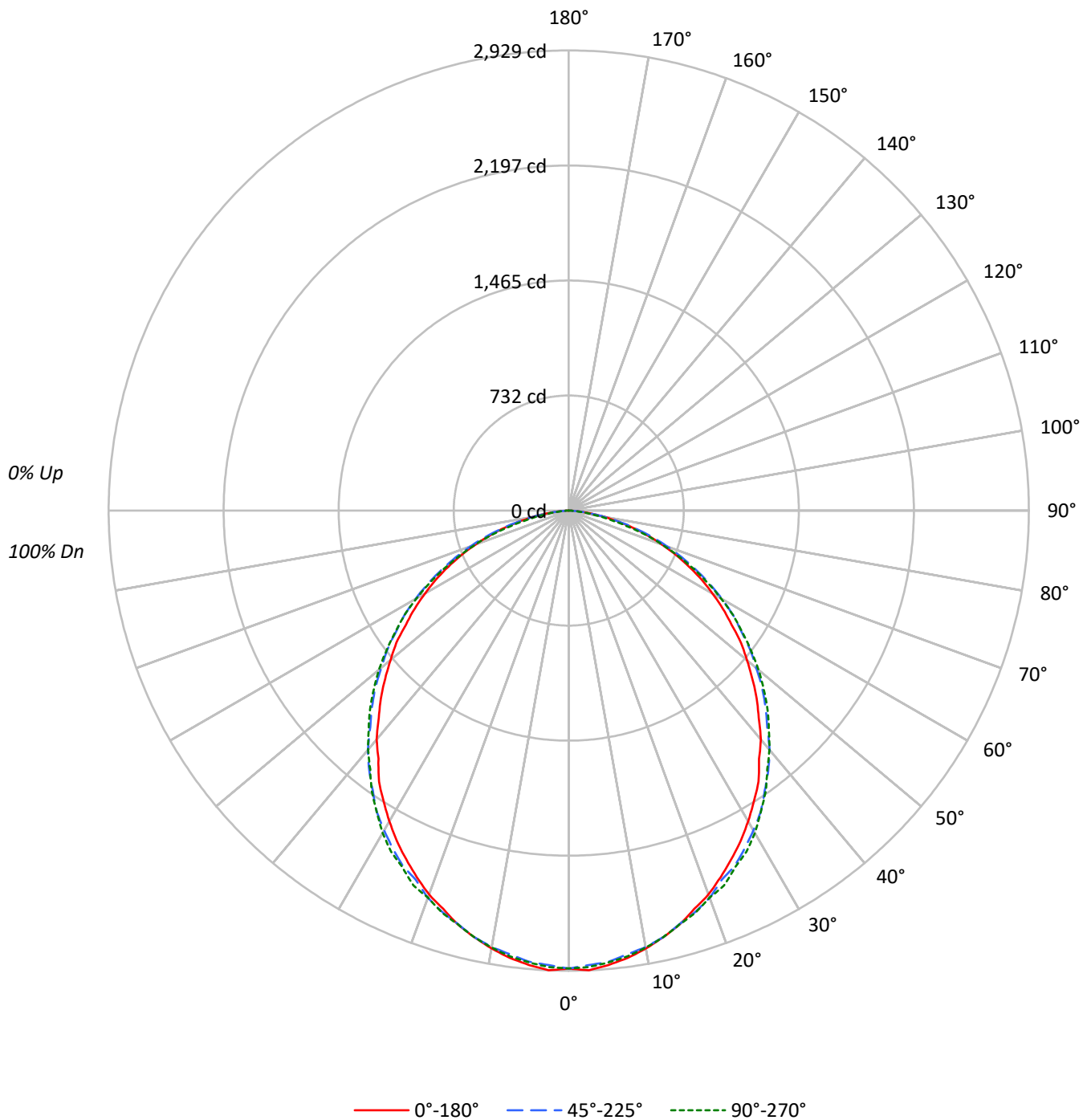
Lumens per Lamp: N/A
Luminaire Lumens: 7486.4 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	7843	7843	7843
5°	7843	7787	7800
10°	7733	7707	7716
15°	7601	7592	7596
20°	7448	7511	7507
25°	7272	7414	7438
30°	7096	7304	7363
35°	6921	7146	7177
40°	6684	6986	6981
45°	6441	6744	6811
50°	6198	6518	6604
55°	5936	6288	6325
60°	5686	6063	6021
65°	5388	5692	5581
70°	4965	5228	4990
75°	4391	4573	3993
80°	3532	3581	2791
85°	2313	2214	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.0	3.7
10°-20°	770.3	10.3
20°-30°	1146.9	15.3
30°-40°	1349.9	18.0
40°-50°	1353.5	18.1
50°-60°	1186.9	15.9
60°-70°	867.9	11.6
70°-80°	447.3	6.0
80°-90°	89.7	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°	2191.2	29.3
0°-40°	3541.1	47.3
0°-60°	6081.5	81.2
0°-90°	7486.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7486.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2915	2915	2915	2915	2915	
5°	2904	2884	2883	2902	2888	275
15°	2728	2733	2725	2742	2727	768
25°	2449	2460	2497	2532	2505	1128
35°	2107	2116	2175	2199	2185	1312
45°	1692	1700	1772	1794	1790	1304
55°	1265	1294	1340	1359	1348	1136
65°	846	865	894	891	876	837
75°	422	426	440	410	384	448
85°	75	73	72	57	53	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2914.6	2914.6	2914.6	2914.6	2914.6
2.5°	2929.0	2914.6	2895.5	2911.4	2908.2
5°	2903.5	2884.3	2882.8	2901.9	2887.5
7.5°	2871.6	2868.4	2849.3	2870.0	2862.0
10°	2830.2	2827.0	2820.6	2834.9	2823.8
12.5°	2780.8	2777.6	2780.8	2788.7	2780.8
15°	2728.2	2733.0	2725.0	2742.5	2726.6
17.5°	2658.1	2662.8	2678.8	2685.2	2683.6
20°	2600.7	2603.9	2623.0	2648.5	2621.4
22.5°	2525.8	2533.8	2543.3	2589.5	2583.2
25°	2449.3	2460.5	2497.1	2532.2	2505.1
27.5°	2369.6	2380.8	2425.4	2450.9	2447.7
30°	2283.6	2294.7	2350.5	2385.6	2369.6
32.5°	2194.3	2213.5	2274.0	2304.3	2274.0
35°	2106.7	2116.2	2175.2	2199.1	2184.8
37.5°	1990.4	2027.0	2086.0	2101.9	2076.4
40°	1902.7	1904.3	1988.8	1988.8	1987.2
42.5°	1789.6	1815.1	1870.8	1901.1	1885.2
45°	1692.4	1700.3	1772.0	1794.3	1789.6
47.5°	1585.6	1617.5	1670.1	1695.5	1682.8
50°	1480.4	1502.7	1556.9	1590.4	1577.6
52.5°	1383.2	1400.7	1456.5	1475.6	1462.9
55°	1265.3	1294.0	1340.2	1359.3	1348.2
57.5°	1163.3	1184.0	1241.4	1247.8	1241.4
60°	1056.5	1080.4	1126.6	1131.4	1118.7
62.5°	954.5	970.5	1011.9	1013.5	999.2
65°	846.2	865.3	894.0	890.8	876.5
67.5°	739.4	752.2	779.3	768.1	752.2
70°	631.1	642.2	664.5	648.6	634.2
72.5°	525.9	533.8	553.0	529.1	511.5
75°	422.3	425.5	439.8	409.5	384.0
77.5°	320.3	323.5	331.5	301.2	272.5
80°	227.9	227.9	231.1	199.2	180.1
82.5°	143.4	143.4	141.8	117.9	106.8
85°	74.9	73.3	71.7	57.4	52.6
87.5°	27.1	27.1	22.3	20.7	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)