

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: P485981

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4STD-35-120-EDD**

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: P485981
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-LD4-4STD-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

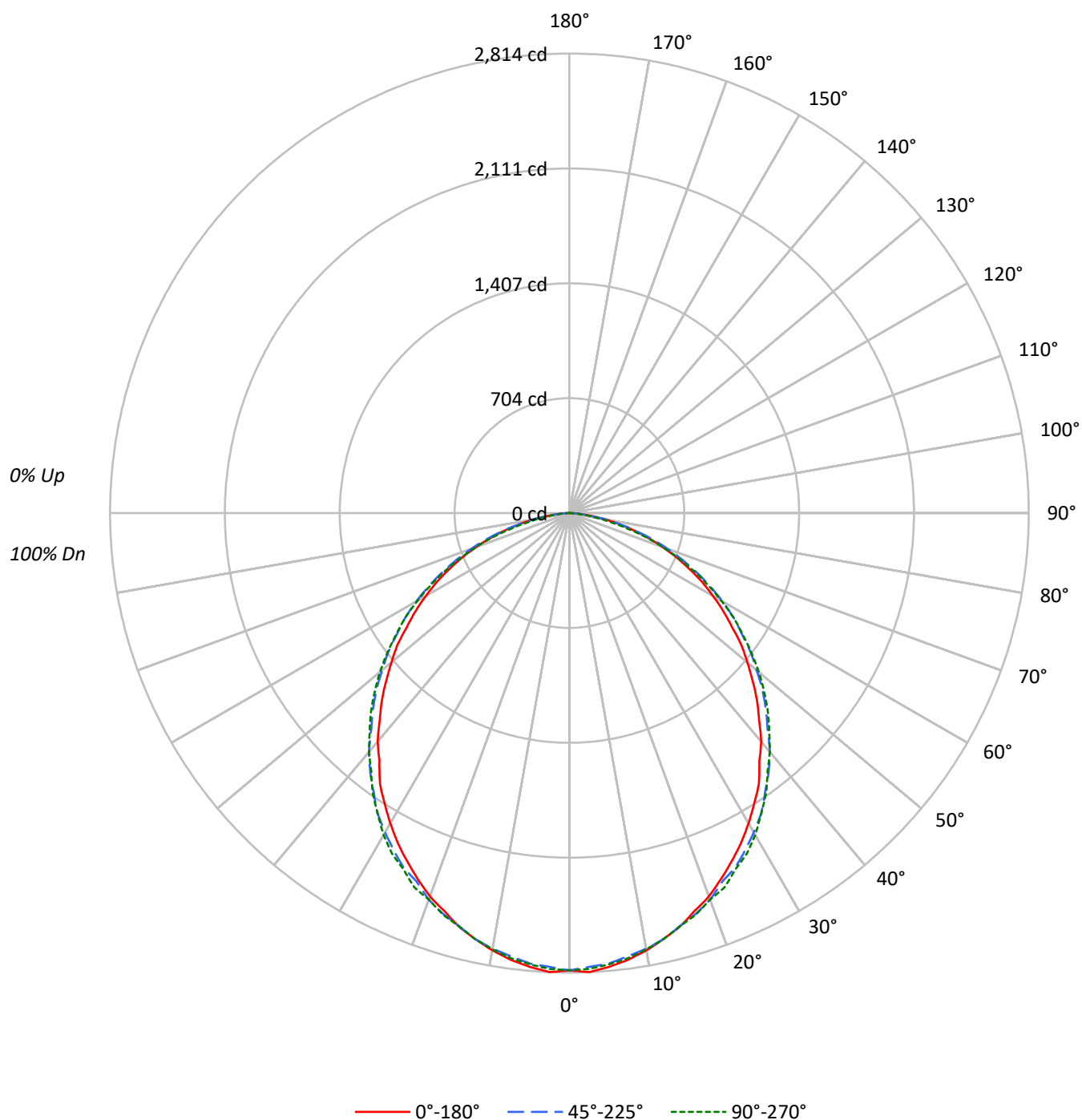
Lumens per Lamp: N/A
Luminaire Lumens: 7192.1 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7535	7535	7535
5°	7535	7481	7493
10°	7429	7404	7413
15°	7302	7293	7297
20°	7155	7216	7212
25°	6986	7123	7146
30°	6817	7017	7074
35°	6649	6865	6895
40°	6421	6712	6706
45°	6187	6479	6543
50°	5954	6262	6345
55°	5703	6040	6077
60°	5463	5825	5784
65°	5176	5468	5361
70°	4770	5023	4794
75°	4218	4393	3837
80°	3392	3440	2681
85°	2223	2127	1559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	3.7
10°-20°	740.0	10.3
20°-30°	1101.8	15.3
30°-40°	1296.9	18.0
40°-50°	1300.3	18.1
50°-60°	1140.2	15.9
60°-70°	833.8	11.6
70°-80°	429.7	6.0
80°-90°	86.2	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°	2105.0	29.3
0°-40°	3401.9	47.3
0°-60°	5842.4	81.2
0°-90°	7192.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7192.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2800	2800	2800	2800	2800	
5°	2789	2771	2769	2788	2774	264
15°	2621	2626	2618	2635	2619	738
25°	2353	2364	2399	2433	2407	1084
35°	2024	2033	2090	2113	2099	1260
45°	1626	1634	1702	1724	1719	1253
55°	1216	1243	1288	1306	1295	1091
65°	813	831	859	856	842	804
75°	406	409	422	393	369	430
85°	72	70	69	55	50	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2800.0	2800.0	2800.0	2800.0	2800.0
2.5°	2813.8	2800.0	2781.7	2797.0	2793.9
5°	2789.3	2771.0	2769.4	2787.8	2774.0
7.5°	2758.7	2755.6	2737.3	2757.2	2749.5
10°	2718.9	2715.8	2709.7	2723.5	2712.8
12.5°	2671.4	2668.4	2671.4	2679.1	2671.4
15°	2620.9	2625.5	2617.9	2634.7	2619.4
17.5°	2553.6	2558.2	2573.5	2579.6	2578.1
20°	2498.5	2501.5	2519.9	2544.4	2518.4
22.5°	2426.5	2434.2	2443.3	2487.7	2481.6
25°	2353.0	2363.7	2398.9	2432.6	2406.6
27.5°	2276.5	2287.2	2330.1	2354.5	2351.5
30°	2193.8	2204.5	2258.1	2291.8	2276.5
32.5°	2108.1	2126.4	2184.6	2213.7	2184.6
35°	2023.9	2033.1	2089.7	2112.7	2098.9
37.5°	1912.1	1947.3	2004.0	2019.3	1994.8
40°	1827.9	1829.4	1910.6	1910.6	1909.1
42.5°	1719.2	1743.7	1797.3	1826.4	1811.1
45°	1625.8	1633.5	1702.4	1723.8	1719.2
47.5°	1523.3	1553.9	1604.4	1628.9	1616.6
50°	1422.2	1443.7	1495.7	1527.9	1515.6
52.5°	1328.8	1345.7	1399.3	1417.6	1405.4
55°	1215.5	1243.1	1287.5	1305.9	1295.2
57.5°	1117.6	1137.5	1192.6	1198.7	1192.6
60°	1015.0	1038.0	1082.4	1087.0	1074.7
62.5°	917.0	932.3	972.1	973.7	959.9
65°	812.9	831.3	858.8	855.8	842.0
67.5°	710.3	722.6	748.6	737.9	722.6
70°	606.2	617.0	638.4	623.1	609.3
72.5°	505.2	512.9	531.2	508.3	491.4
75°	405.7	408.8	422.5	393.4	369.0
77.5°	307.7	310.8	318.4	289.3	261.8
80°	218.9	218.9	222.0	191.4	173.0
82.5°	137.8	137.8	136.3	113.3	102.6
85°	72.0	70.4	68.9	55.1	50.5
87.5°	26.0	26.0	21.4	19.9	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)