

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: P485938

Luminaire Tested: **ORLG-24-2-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: P485938
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-LD4-3STD-20-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

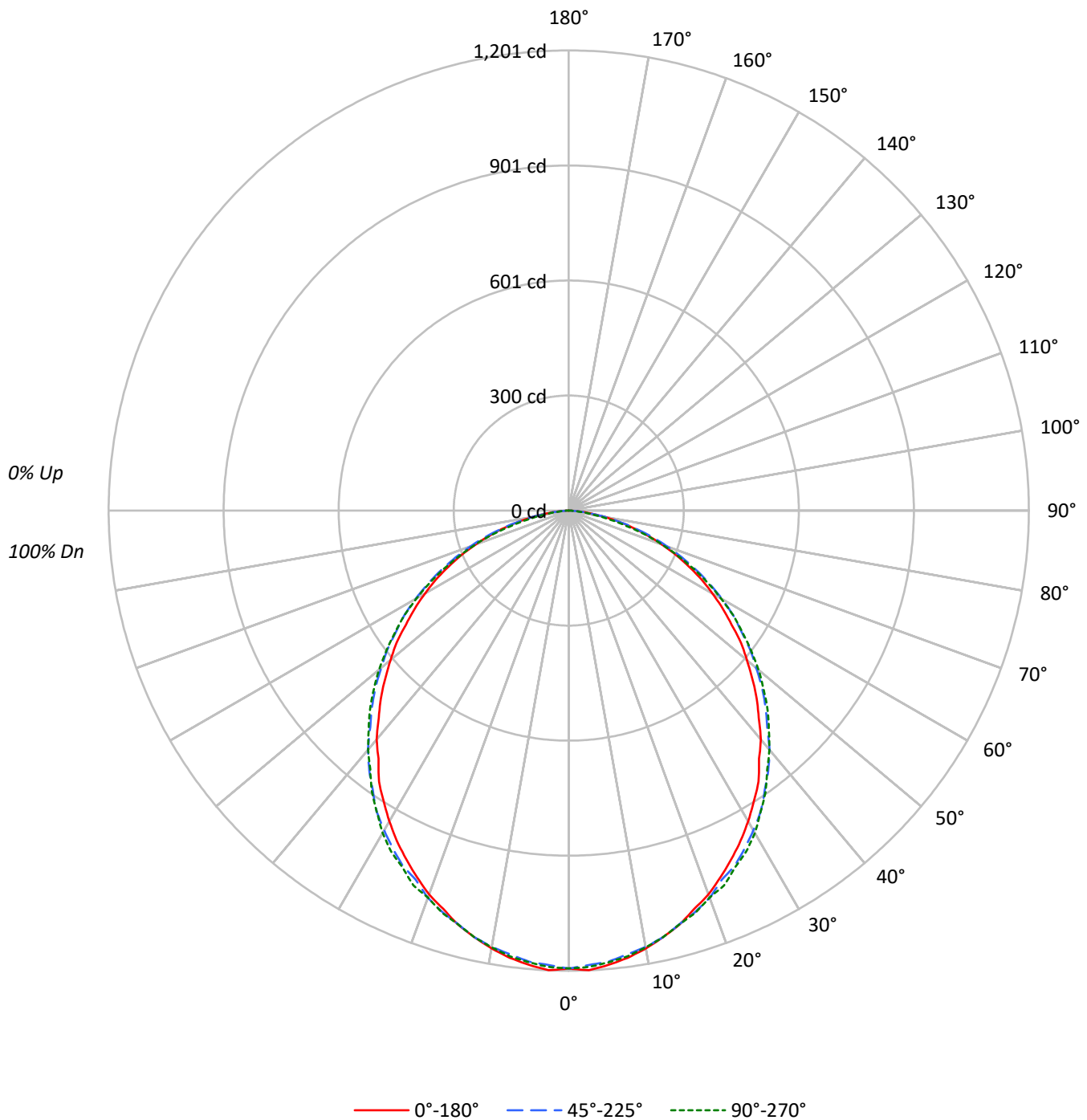
Lumens per Lamp: N/A
Luminaire Lumens: 3069.2 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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

TEST NUMBER: P485938

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-3STD-20-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P485938

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-3STD-20-120-EDD-90

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°	3215	3215	3215
5°	3215	3192	3198
10°	3171	3160	3163
15°	3116	3112	3114
20°	3053	3080	3078
25°	2981	3040	3049
30°	2909	2994	3019
35°	2837	2930	2942
40°	2740	2864	2862
45°	2640	2765	2792
50°	2541	2672	2708
55°	2434	2578	2593
60°	2331	2486	2468
65°	2209	2334	2288
70°	2035	2143	2046
75°	1800	1875	1637
80°	1447	1468	1144
85°	948	908	667



TEST NUMBER: P485938

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-3STD-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	3.7
10°-20°	315.8	10.3
20°-30°	470.2	15.3
30°-40°	553.4	18.0
40°-50°	554.9	18.1
50°-60°	486.6	15.9
60°-70°	355.8	11.6
70°-80°	183.4	6.0
80°-90°	36.8	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°	898.3	29.3
0°-40°	1451.7	47.3
0°-60°	2493.2	81.2
0°-90°	3069.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3069.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1195	1195	1195	1195	1195	
5°	1190	1182	1182	1190	1184	113
15°	1118	1120	1117	1124	1118	315
25°	1004	1009	1024	1038	1027	463
35°	864	868	892	902	896	538
45°	694	697	726	736	734	535
55°	519	530	549	557	553	466
65°	347	355	366	365	359	343
75°	173	174	180	168	157	183
85°	31	30	29	24	22	40
90°	0	0	0	0	0	



TEST NUMBER: P485938

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-3STD-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1194.9	1194.9	1194.9	1194.9	1194.9
2.5°	1200.8	1194.9	1187.1	1193.6	1192.3
5°	1190.3	1182.5	1181.8	1189.7	1183.8
7.5°	1177.3	1176.0	1168.1	1176.6	1173.3
10°	1160.3	1159.0	1156.4	1162.2	1157.7
12.5°	1140.0	1138.7	1140.0	1143.3	1140.0
15°	1118.5	1120.4	1117.2	1124.4	1117.8
17.5°	1089.7	1091.7	1098.2	1100.8	1100.2
20°	1066.2	1067.5	1075.4	1085.8	1074.7
22.5°	1035.5	1038.8	1042.7	1061.6	1059.0
25°	1004.1	1008.7	1023.7	1038.1	1027.0
27.5°	971.5	976.0	994.3	1004.8	1003.5
30°	936.2	940.8	963.6	978.0	971.5
32.5°	899.6	907.5	932.3	944.7	932.3
35°	863.7	867.6	891.8	901.6	895.7
37.5°	816.0	831.0	855.2	861.7	851.3
40°	780.1	780.7	815.3	815.3	814.7
42.5°	733.7	744.1	767.0	779.4	772.9
45°	693.8	697.1	726.5	735.6	733.7
47.5°	650.0	663.1	684.7	695.1	689.9
50°	606.9	616.1	638.3	652.0	646.8
52.5°	567.1	574.3	597.1	605.0	599.7
55°	518.7	530.5	549.4	557.3	552.7
57.5°	476.9	485.4	508.9	511.5	508.9
60°	433.1	442.9	461.9	463.9	458.6
62.5°	391.3	397.9	414.9	415.5	409.6
65°	346.9	354.7	366.5	365.2	359.3
67.5°	303.1	308.4	319.5	314.9	308.4
70°	258.7	263.3	272.4	265.9	260.0
72.5°	215.6	218.9	226.7	216.9	209.7
75°	173.1	174.4	180.3	167.9	157.4
77.5°	131.3	132.6	135.9	123.5	111.7
80°	93.4	93.4	94.7	81.7	73.8
82.5°	58.8	58.8	58.1	48.3	43.8
85°	30.7	30.1	29.4	23.5	21.6
87.5°	11.1	11.1	9.1	8.5	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)