

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: P485862

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1LO-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: P485862
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-LD4-1LO-40-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

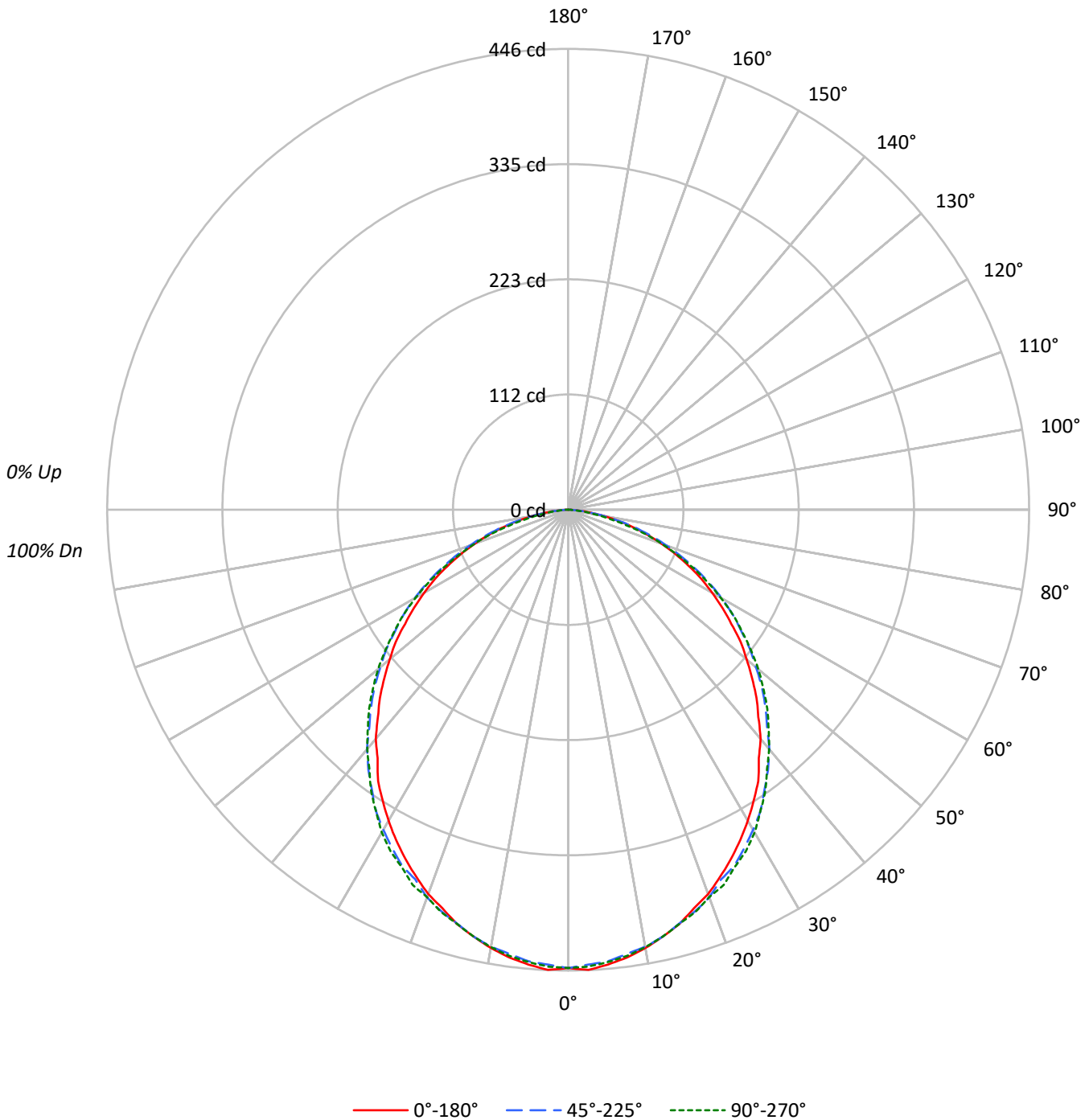
Lumens per Lamp: N/A
Luminaire Lumens: 1139.4 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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: P485862

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1LO-40-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P485862

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1LO-40-120-EDD-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1194	1194	1194
5°	1194	1185	1187
10°	1177	1173	1174
15°	1157	1155	1156
20°	1133	1143	1143
25°	1107	1129	1132
30°	1080	1111	1120
35°	1053	1088	1092
40°	1017	1063	1062
45°	980	1026	1037
50°	943	992	1005
55°	904	957	963
60°	865	923	917
65°	820	867	849
70°	755	795	759
75°	669	696	608
80°	538	545	425
85°	352	337	247



TEST NUMBER: P485862

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1LO-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.7	3.7
10°-20°	117.2	10.3
20°-30°	174.5	15.3
30°-40°	205.5	18.0
40°-50°	206.0	18.1
50°-60°	180.6	15.9
60°-70°	132.1	11.6
70°-80°	68.1	6.0
80°-90°	13.7	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°	333.5	29.3
0°-40°	538.9	47.3
0°-60°	925.6	81.2
0°-90°	1139.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1139.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	442	439	439	442	440	42
15°	415	416	415	417	415	117
25°	373	374	380	385	381	172
35°	321	322	331	335	332	200
45°	258	259	270	273	272	199
55°	193	197	204	207	205	173
65°	129	132	136	136	133	127
75°	64	65	67	62	58	68
85°	11	11	11	9	8	15
90°	0	0	0	0	0	



TEST NUMBER: P485862

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1LO-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	443.6	443.6	443.6	443.6	443.6
2.5°	445.8	443.6	440.7	443.1	442.6
5°	441.9	439.0	438.7	441.7	439.5
7.5°	437.0	436.6	433.7	436.8	435.6
10°	430.7	430.3	429.3	431.5	429.8
12.5°	423.2	422.7	423.2	424.4	423.2
15°	415.2	415.9	414.7	417.4	415.0
17.5°	404.5	405.3	407.7	408.7	408.4
20°	395.8	396.3	399.2	403.1	399.0
22.5°	384.4	385.6	387.1	394.1	393.1
25°	372.8	374.5	380.1	385.4	381.3
27.5°	360.6	362.3	369.1	373.0	372.5
30°	347.6	349.2	357.7	363.1	360.6
32.5°	334.0	336.9	346.1	350.7	346.1
35°	320.6	322.1	331.1	334.7	332.5
37.5°	302.9	308.5	317.5	319.9	316.0
40°	289.6	289.8	302.7	302.7	302.4
42.5°	272.4	276.2	284.7	289.3	286.9
45°	257.6	258.8	269.7	273.1	272.4
47.5°	241.3	246.2	254.2	258.1	256.1
50°	225.3	228.7	237.0	242.0	240.1
52.5°	210.5	213.2	221.7	224.6	222.6
55°	192.6	196.9	204.0	206.9	205.2
57.5°	177.0	180.2	188.9	189.9	188.9
60°	160.8	164.4	171.5	172.2	170.3
62.5°	145.3	147.7	154.0	154.3	152.1
65°	128.8	131.7	136.1	135.6	133.4
67.5°	112.5	114.5	118.6	116.9	114.5
70°	96.0	97.7	101.1	98.7	96.5
72.5°	80.0	81.2	84.2	80.5	77.9
75°	64.3	64.8	66.9	62.3	58.5
77.5°	48.7	49.2	50.4	45.8	41.5
80°	34.7	34.7	35.2	30.3	27.4
82.5°	21.8	21.8	21.6	17.9	16.2
85°	11.4	11.2	10.9	8.7	8.0
87.5°	4.1	4.1	3.4	3.2	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)