

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: P485861

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1LO-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: P485861
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-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

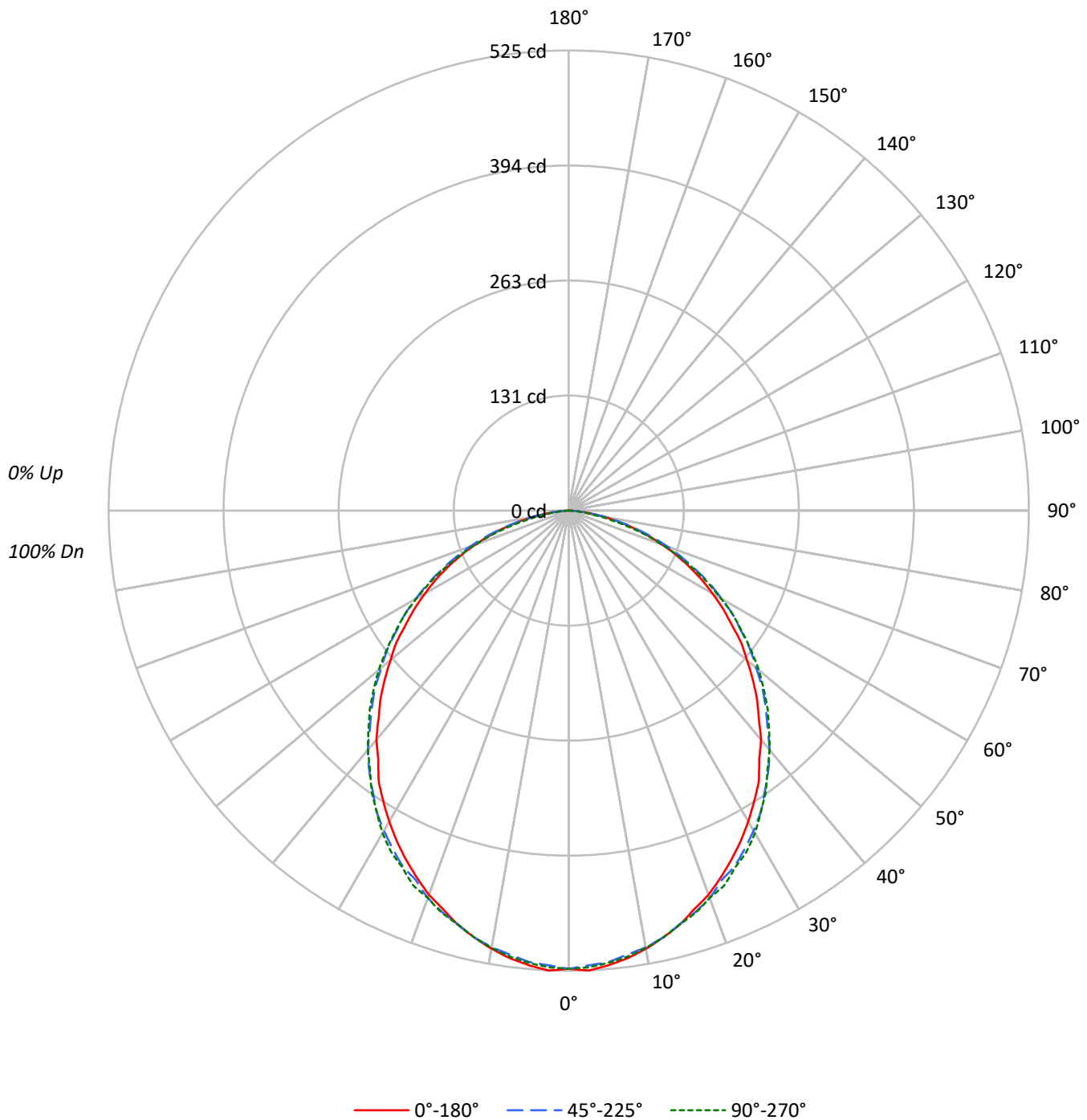
Lumens per Lamp: N/A
Luminaire Lumens: 1342.7 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P485861

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1LO-35-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P485861

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1LO-35-120-EDD

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°	1407	1407	1407
5°	1407	1397	1399
10°	1387	1382	1384
15°	1363	1361	1362
20°	1336	1347	1347
25°	1304	1330	1334
30°	1273	1310	1321
35°	1241	1282	1287
40°	1199	1253	1252
45°	1155	1209	1222
50°	1111	1169	1185
55°	1065	1128	1134
60°	1020	1088	1080
65°	967	1021	1001
70°	891	938	895
75°	787	820	716
80°	634	642	501
85°	414	398	290



TEST NUMBER: P485861

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1LO-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	3.7
10°-20°	138.2	10.3
20°-30°	205.7	15.3
30°-40°	242.1	18.0
40°-50°	242.7	18.1
50°-60°	212.9	15.9
60°-70°	155.7	11.6
70°-80°	80.2	6.0
80°-90°	16.1	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°	393.0	29.3
0°-40°	635.1	47.3
0°-60°	1090.7	81.2
0°-90°	1342.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1342.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	521	517	517	520	518	49
15°	489	490	489	492	489	138
25°	439	441	448	454	449	202
35°	378	380	390	394	392	235
45°	304	305	318	322	321	234
55°	227	232	240	244	242	204
65°	152	155	160	160	157	150
75°	76	76	79	74	69	80
85°	13	13	13	10	9	18
90°	0	0	0	0	0	



TEST NUMBER: P485861

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1LO-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	522.7	522.7	522.7	522.7	522.7
2.5°	525.3	522.7	519.3	522.2	521.6
5°	520.7	517.3	517.0	520.5	517.9
7.5°	515.0	514.5	511.0	514.7	513.3
10°	507.6	507.0	505.9	508.5	506.5
12.5°	498.7	498.2	498.7	500.2	498.7
15°	489.3	490.2	488.7	491.9	489.0
17.5°	476.7	477.6	480.4	481.6	481.3
20°	466.4	467.0	470.4	475.0	470.2
22.5°	453.0	454.4	456.1	464.4	463.3
25°	439.3	441.3	447.9	454.1	449.3
27.5°	425.0	427.0	435.0	439.6	439.0
30°	409.6	411.6	421.6	427.9	425.0
32.5°	393.6	397.0	407.8	413.3	407.8
35°	377.8	379.6	390.1	394.4	391.8
37.5°	357.0	363.5	374.1	377.0	372.4
40°	341.3	341.5	356.7	356.7	356.4
42.5°	321.0	325.5	335.5	341.0	338.1
45°	303.5	305.0	317.8	321.8	321.0
47.5°	284.4	290.1	299.5	304.1	301.8
50°	265.5	269.5	279.2	285.2	283.0
52.5°	248.1	251.2	261.2	264.7	262.4
55°	226.9	232.1	240.4	243.8	241.8
57.5°	208.6	212.4	222.6	223.8	222.6
60°	189.5	193.8	202.1	202.9	200.6
62.5°	171.2	174.1	181.5	181.8	179.2
65°	151.8	155.2	160.3	159.8	157.2
67.5°	132.6	134.9	139.8	137.8	134.9
70°	113.2	115.2	119.2	116.3	113.8
72.5°	94.3	95.7	99.2	94.9	91.7
75°	75.7	76.3	78.9	73.5	68.9
77.5°	57.4	58.0	59.4	54.0	48.9
80°	40.9	40.9	41.4	35.7	32.3
82.5°	25.7	25.7	25.4	21.1	19.1
85°	13.4	13.1	12.9	10.3	9.4
87.5°	4.9	4.9	4.0	3.7	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)