

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: P485865

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1LO-50-120-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: P485865
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-50-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

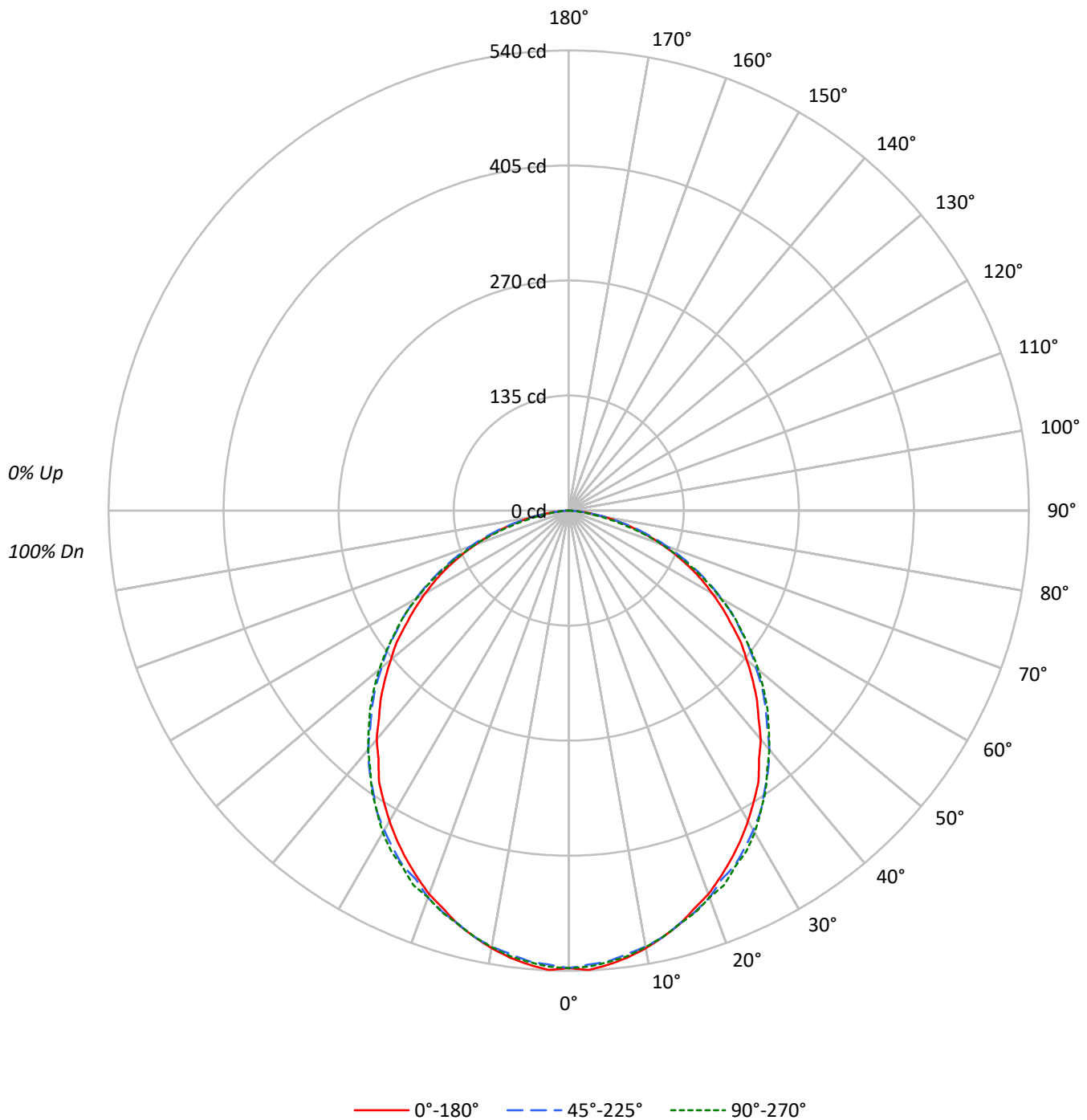
Lumens per Lamp: N/A
Luminaire Lumens: 1379.1 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	1445	1445	1445
5°	1445	1434	1437
10°	1425	1420	1421
15°	1400	1399	1399
20°	1372	1384	1383
25°	1340	1366	1370
30°	1307	1345	1356
35°	1275	1316	1322
40°	1231	1287	1286
45°	1187	1242	1255
50°	1142	1201	1217
55°	1094	1158	1165
60°	1047	1117	1109
65°	993	1049	1028
70°	914	963	919
75°	809	842	735
80°	651	660	514
85°	426	408	299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	3.7
10°-20°	141.9	10.3
20°-30°	211.3	15.3
30°-40°	248.7	18.0
40°-50°	249.3	18.1
50°-60°	218.6	15.9
60°-70°	159.9	11.6
70°-80°	82.4	6.0
80°-90°	16.5	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°	403.7	29.3
0°-40°	652.3	47.3
0°-60°	1120.3	81.2
0°-90°	1379.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1379.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	537	537	537	537	537	
5°	535	531	531	535	532	51
15°	503	503	502	505	502	141
25°	451	453	460	466	462	208
35°	388	390	401	405	402	242
45°	312	313	326	330	330	240
55°	233	238	247	250	248	209
65°	156	159	165	164	162	154
75°	78	78	81	75	71	82
85°	14	14	13	11	10	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	536.9	536.9	536.9	536.9	536.9
2.5°	539.6	536.9	533.4	536.3	535.7
5°	534.9	531.3	531.0	534.6	531.9
7.5°	529.0	528.4	524.9	528.7	527.2
10°	521.4	520.8	519.6	522.2	520.2
12.5°	512.3	511.7	512.3	513.7	512.3
15°	502.6	503.4	502.0	505.2	502.3
17.5°	489.7	490.5	493.5	494.6	494.3
20°	479.1	479.7	483.2	487.9	482.9
22.5°	465.3	466.8	468.5	477.0	475.9
25°	451.2	453.3	460.0	466.5	461.5
27.5°	436.5	438.6	446.8	451.5	450.9
30°	420.7	422.7	433.0	439.5	436.5
32.5°	404.2	407.7	418.9	424.5	418.9
35°	388.1	389.8	400.7	405.1	402.5
37.5°	366.7	373.4	384.3	387.2	382.5
40°	350.5	350.8	366.4	366.4	366.1
42.5°	329.7	334.4	344.6	350.2	347.3
45°	311.8	313.2	326.4	330.5	329.7
47.5°	292.1	298.0	307.6	312.3	310.0
50°	272.7	276.8	286.8	293.0	290.6
52.5°	254.8	258.0	268.3	271.8	269.5
55°	233.1	238.4	246.9	250.4	248.3
57.5°	214.3	218.1	228.7	229.9	228.7
60°	194.6	199.0	207.5	208.4	206.1
62.5°	175.8	178.8	186.4	186.7	184.1
65°	155.9	159.4	164.7	164.1	161.5
67.5°	136.2	138.6	143.5	141.5	138.6
70°	116.2	118.3	122.4	119.5	116.8
72.5°	96.9	98.3	101.9	97.5	94.2
75°	77.8	78.4	81.0	75.4	70.7
77.5°	59.0	59.6	61.1	55.5	50.2
80°	42.0	42.0	42.6	36.7	33.2
82.5°	26.4	26.4	26.1	21.7	19.7
85°	13.8	13.5	13.2	10.6	9.7
87.5°	5.0	5.0	4.1	3.8	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)