

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: P485868

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1STD-27-120-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: P485868
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-LD4-1STD-27-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

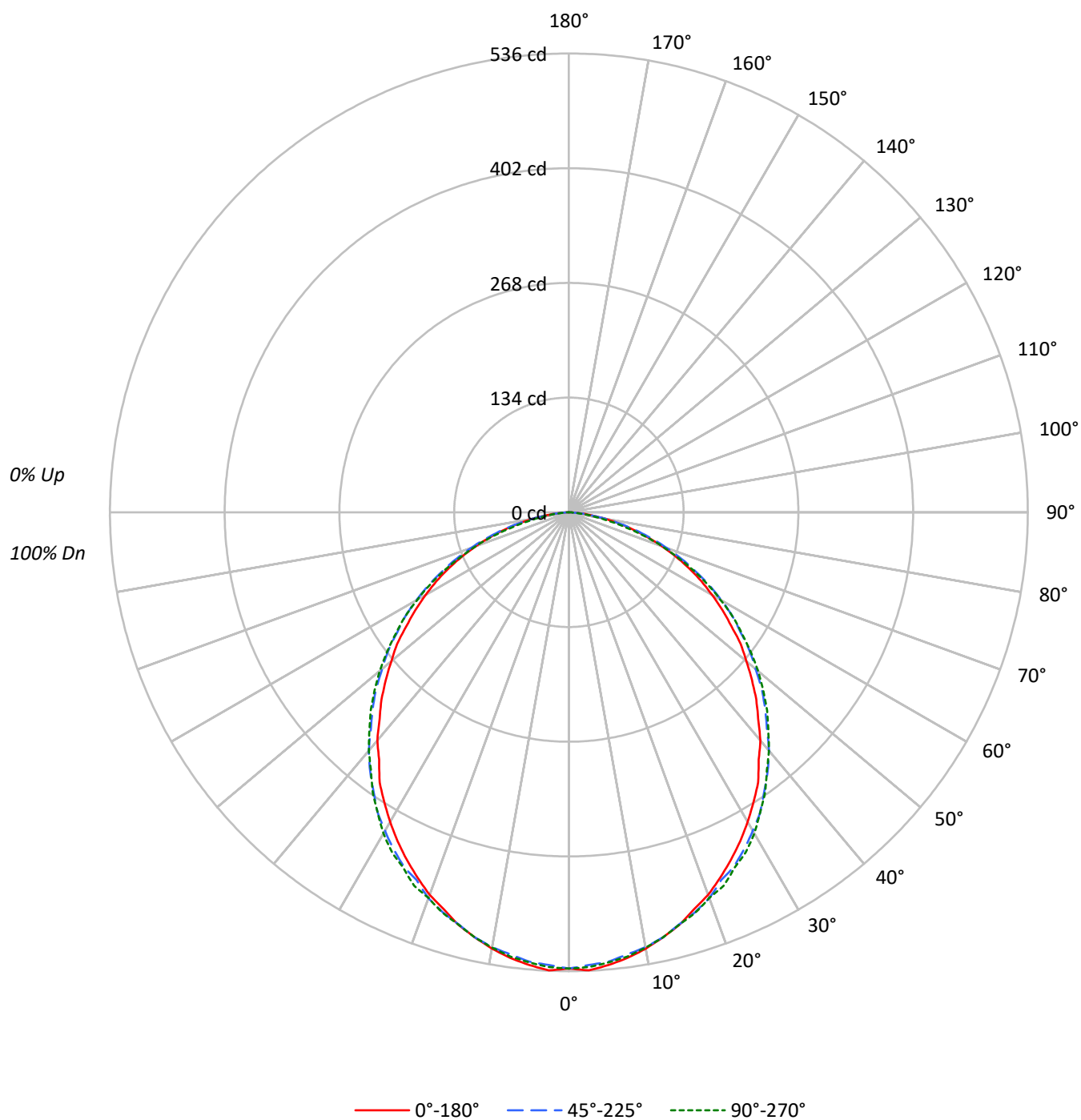
Lumens per Lamp: N/A
Luminaire Lumens: 1368.7 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	1434	1434	1434
5°	1434	1424	1426
10°	1414	1409	1411
15°	1390	1388	1389
20°	1362	1373	1373
25°	1330	1355	1360
30°	1297	1335	1346
35°	1265	1306	1312
40°	1222	1277	1276
45°	1177	1233	1245
50°	1133	1191	1207
55°	1085	1149	1156
60°	1040	1109	1101
65°	985	1040	1020
70°	908	956	913
75°	803	836	730
80°	646	654	510
85°	423	404	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	3.7
10°-20°	140.8	10.3
20°-30°	209.7	15.3
30°-40°	246.8	18.0
40°-50°	247.5	18.1
50°-60°	217.0	15.9
60°-70°	158.7	11.6
70°-80°	81.8	6.0
80°-90°	16.4	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°	400.6	29.3
0°-40°	647.4	47.3
0°-60°	1111.9	81.2
0°-90°	1368.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1368.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	533	533	533	533	533	
5°	531	527	527	530	528	50
15°	499	500	498	501	498	140
25°	448	450	456	463	458	206
35°	385	387	398	402	399	240
45°	309	311	324	328	327	238
55°	231	237	245	248	246	208
65°	155	158	163	163	160	153
75°	77	78	80	75	70	82
85°	14	13	13	10	10	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	532.9	532.9	532.9	532.9	532.9
2.5°	535.5	532.9	529.4	532.3	531.7
5°	530.8	527.3	527.0	530.5	527.9
7.5°	525.0	524.4	520.9	524.7	523.3
10°	517.4	516.8	515.7	518.3	516.3
12.5°	508.4	507.8	508.4	509.8	508.4
15°	498.8	499.7	498.2	501.4	498.5
17.5°	486.0	486.8	489.7	490.9	490.6
20°	475.5	476.1	479.5	484.2	479.3
22.5°	461.8	463.2	465.0	473.4	472.3
25°	447.8	449.8	456.5	462.9	458.0
27.5°	433.2	435.3	443.4	448.1	447.5
30°	417.5	419.5	429.7	436.1	433.2
32.5°	401.2	404.7	415.7	421.3	415.7
35°	385.2	386.9	397.7	402.1	399.4
37.5°	363.9	370.6	381.4	384.3	379.6
40°	347.9	348.2	363.6	363.6	363.3
42.5°	327.2	331.8	342.0	347.6	344.7
45°	309.4	310.9	324.0	328.1	327.2
47.5°	289.9	295.7	305.3	310.0	307.7
50°	270.7	274.7	284.6	290.8	288.4
52.5°	252.9	256.1	266.3	269.8	267.5
55°	231.3	236.6	245.0	248.5	246.5
57.5°	212.7	216.5	227.0	228.1	227.0
60°	193.2	197.5	206.0	206.9	204.5
62.5°	174.5	177.4	185.0	185.3	182.7
65°	154.7	158.2	163.4	162.9	160.2
67.5°	135.2	137.5	142.5	140.4	137.5
70°	115.4	117.4	121.5	118.6	116.0
72.5°	96.1	97.6	101.1	96.7	93.5
75°	77.2	77.8	80.4	74.9	70.2
77.5°	58.6	59.1	60.6	55.1	49.8
80°	41.7	41.7	42.2	36.4	32.9
82.5°	26.2	26.2	25.9	21.6	19.5
85°	13.7	13.4	13.1	10.5	9.6
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)