

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: P485890

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2LO-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: P485890
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-LD4-2LO-20-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

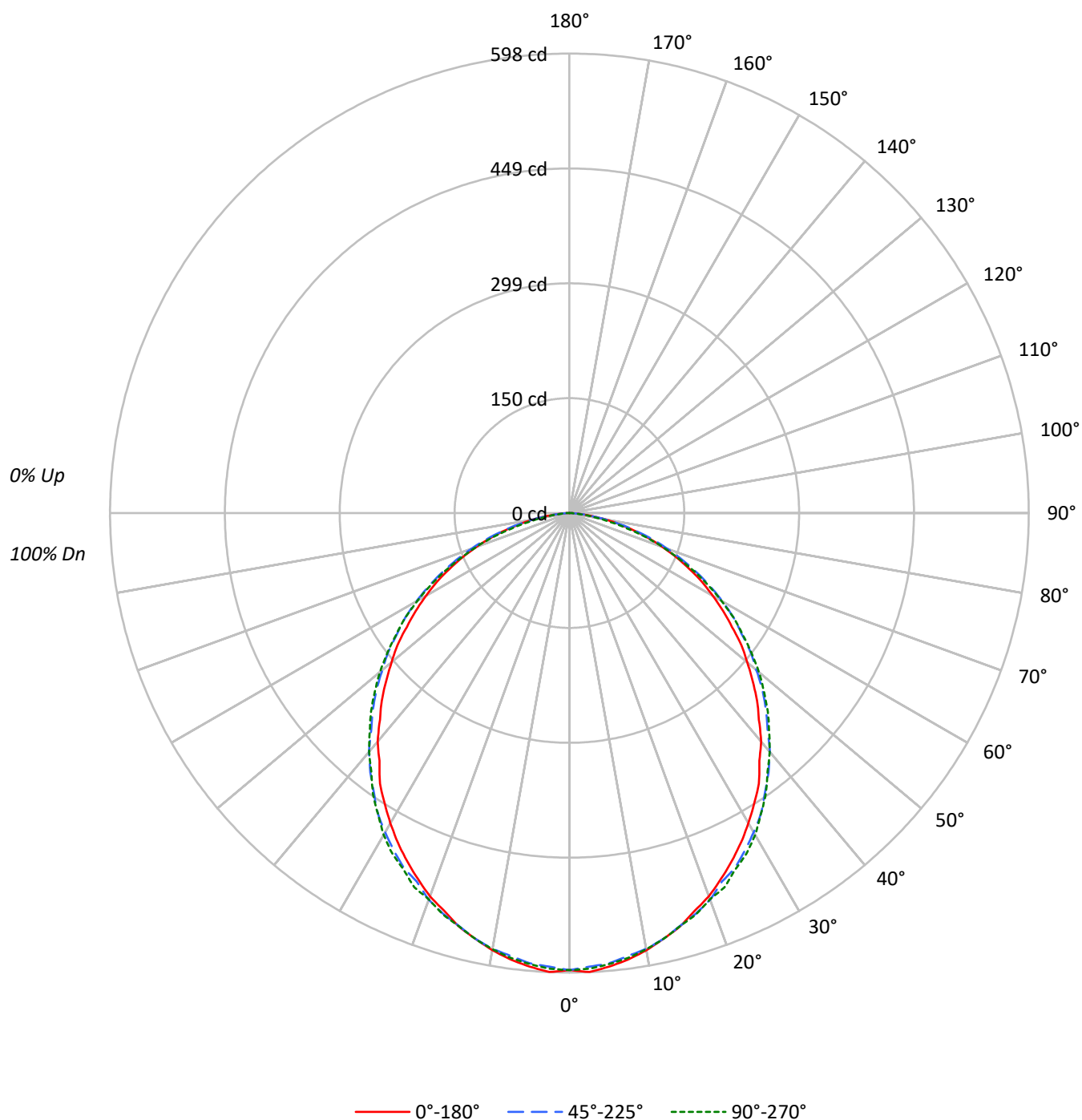
Lumens per Lamp: N/A
Luminaire Lumens: 1527.9 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	1601	1601	1601
5°	1601	1589	1592
10°	1578	1573	1575
15°	1551	1549	1550
20°	1520	1533	1532
25°	1484	1513	1518
30°	1448	1491	1503
35°	1413	1458	1465
40°	1364	1426	1425
45°	1314	1376	1390
50°	1265	1330	1348
55°	1211	1283	1291
60°	1160	1237	1229
65°	1100	1162	1139
70°	1013	1067	1018
75°	896	934	815
80°	721	731	570
85°	472	451	330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	3.7
10°-20°	157.2	10.3
20°-30°	234.1	15.3
30°-40°	275.5	18.0
40°-50°	276.2	18.1
50°-60°	242.2	15.9
60°-70°	177.1	11.6
70°-80°	91.3	6.0
80°-90°	18.3	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°	447.2	29.3
0°-40°	722.7	47.3
0°-60°	1241.2	81.2
0°-90°	1527.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1527.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	593	589	588	592	589	56
15°	557	558	556	560	556	157
25°	500	502	510	517	511	230
35°	430	432	444	449	446	268
45°	345	347	362	366	365	266
55°	258	264	274	277	275	232
65°	173	177	182	182	179	171
75°	86	87	90	84	78	91
85°	15	15	15	12	11	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	594.8	594.8	594.8	594.8	594.8
2.5°	597.8	594.8	590.9	594.2	593.5
5°	592.6	588.7	588.3	592.2	589.3
7.5°	586.1	585.4	581.5	585.7	584.1
10°	577.6	577.0	575.7	578.6	576.3
12.5°	567.5	566.9	567.5	569.2	567.5
15°	556.8	557.8	556.1	559.7	556.5
17.5°	542.5	543.5	546.7	548.0	547.7
20°	530.8	531.4	535.3	540.5	535.0
22.5°	515.5	517.1	519.1	528.5	527.2
25°	499.9	502.2	509.6	516.8	511.3
27.5°	483.6	485.9	495.0	500.2	499.6
30°	466.1	468.3	479.7	486.9	483.6
32.5°	447.8	451.7	464.1	470.3	464.1
35°	430.0	431.9	443.9	448.8	445.9
37.5°	406.2	413.7	425.7	429.0	423.8
40°	388.3	388.6	405.9	405.9	405.6
42.5°	365.2	370.4	381.8	388.0	384.7
45°	345.4	347.0	361.7	366.2	365.2
47.5°	323.6	330.1	340.8	346.0	343.4
50°	302.1	306.7	317.7	324.6	322.0
52.5°	282.3	285.9	297.3	301.2	298.6
55°	258.2	264.1	273.5	277.4	275.1
57.5°	237.4	241.6	253.4	254.7	253.4
60°	215.6	220.5	229.9	230.9	228.3
62.5°	194.8	198.1	206.5	206.8	203.9
65°	172.7	176.6	182.5	181.8	178.9
67.5°	150.9	153.5	159.0	156.8	153.5
70°	128.8	131.1	135.6	132.4	129.4
72.5°	107.3	109.0	112.9	108.0	104.4
75°	86.2	86.8	89.8	83.6	78.4
77.5°	65.4	66.0	67.6	61.5	55.6
80°	46.5	46.5	47.2	40.7	36.8
82.5°	29.3	29.3	28.9	24.1	21.8
85°	15.3	15.0	14.6	11.7	10.7
87.5°	5.5	5.5	4.6	4.2	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)