

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: P485871

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1STD-30-120-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: P485871
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-30-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

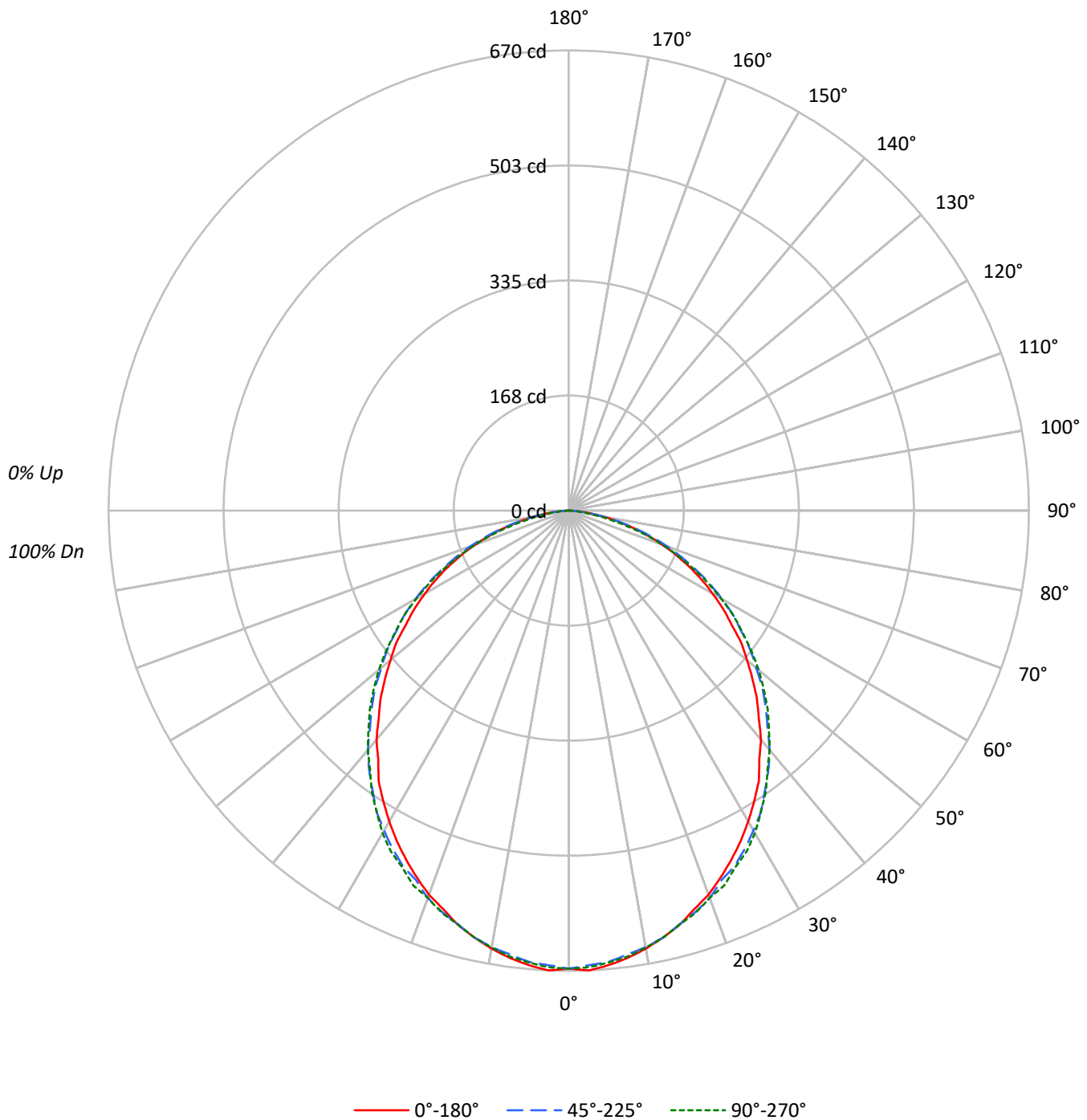
Lumens per Lamp: N/A
Luminaire Lumens: 1713.1 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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					10
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°	1795	1795	1795
5°	1795	1782	1785
10°	1770	1764	1766
15°	1739	1737	1738
20°	1704	1719	1718
25°	1664	1697	1702
30°	1624	1671	1685
35°	1584	1635	1642
40°	1529	1599	1597
45°	1474	1543	1558
50°	1418	1492	1511
55°	1358	1439	1447
60°	1301	1387	1378
65°	1233	1303	1277
70°	1136	1197	1142
75°	1004	1046	914
80°	807	820	638
85°	528	506	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	3.7
10°-20°	176.3	10.3
20°-30°	262.4	15.3
30°-40°	308.9	18.0
40°-50°	309.7	18.1
50°-60°	271.6	15.9
60°-70°	198.6	11.6
70°-80°	102.3	6.0
80°-90°	20.5	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°	501.4	29.3
0°-40°	810.3	47.3
0°-60°	1391.6	81.2
0°-90°	1713.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1713.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	664	660	660	664	661	63
15°	624	625	624	628	624	176
25°	560	563	571	579	573	258
35°	482	484	498	503	500	300
45°	387	389	406	411	410	298
55°	290	296	307	311	308	260
65°	194	198	205	204	201	192
75°	97	97	101	94	88	102
85°	17	17	16	13	12	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	666.9	666.9	666.9	666.9	666.9
2.5°	670.2	666.9	662.6	666.2	665.5
5°	664.4	660.0	659.7	664.0	660.7
7.5°	657.1	656.4	652.0	656.7	654.9
10°	647.6	646.9	645.4	648.7	646.2
12.5°	636.3	635.6	636.3	638.1	636.3
15°	624.3	625.4	623.6	627.6	623.9
17.5°	608.2	609.3	613.0	614.4	614.1
20°	595.1	595.8	600.2	606.1	599.9
22.5°	578.0	579.8	582.0	592.6	591.1
25°	560.5	563.0	571.4	579.4	573.2
27.5°	542.2	544.8	555.0	560.8	560.1
30°	522.5	525.1	537.9	545.9	542.2
32.5°	502.1	506.5	520.4	527.3	520.4
35°	482.1	484.3	497.7	503.2	499.9
37.5°	455.5	463.8	477.3	481.0	475.1
40°	435.4	435.8	455.1	455.1	454.7
42.5°	409.5	415.3	428.1	435.0	431.4
45°	387.3	389.1	405.5	410.6	409.5
47.5°	362.8	370.1	382.2	388.0	385.1
50°	338.8	343.9	356.3	363.9	361.0
52.5°	316.5	320.5	333.3	337.7	334.8
55°	289.5	296.1	306.7	311.0	308.5
57.5°	266.2	270.9	284.1	285.5	284.1
60°	241.8	247.2	257.8	258.9	256.0
62.5°	218.4	222.1	231.6	231.9	228.6
65°	193.6	198.0	204.6	203.8	200.6
67.5°	169.2	172.1	178.3	175.8	172.1
70°	144.4	147.0	152.1	148.4	145.1
72.5°	120.3	122.2	126.5	121.1	117.1
75°	96.6	97.4	100.6	93.7	87.9
77.5°	73.3	74.0	75.8	68.9	62.4
80°	52.1	52.1	52.9	45.6	41.2
82.5°	32.8	32.8	32.5	27.0	24.4
85°	17.1	16.8	16.4	13.1	12.0
87.5°	6.2	6.2	5.1	4.7	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)