

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: P486055

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6STD-40-120-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: P486055
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-LD4-6STD-40-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

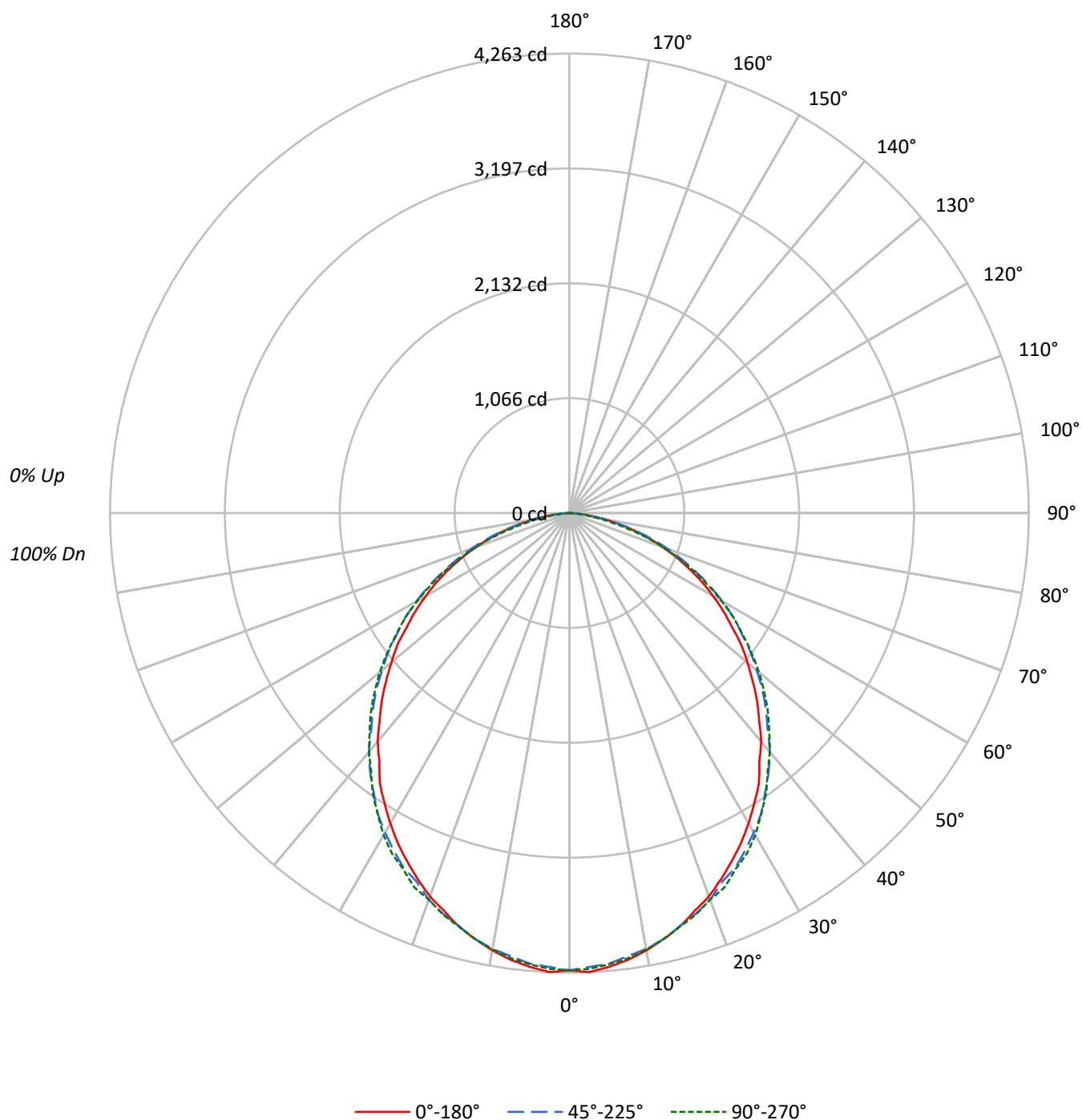
Lumens per Lamp: N/A
Luminaire Lumens: 10896.1 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	11415	11415	11415
5°	11415	11334	11353
10°	11256	11218	11230
15°	11062	11049	11056
20°	10840	10933	10926
25°	10584	10791	10826
30°	10327	10630	10717
35°	10073	10400	10446
40°	9728	10168	10160
45°	9374	9815	9912
50°	9020	9486	9613
55°	8640	9151	9206
60°	8276	8825	8763
65°	7842	8285	8122
70°	7227	7610	7263
75°	6390	6655	5812
80°	5140	5212	4062
85°	3365	3223	2362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.7	3.7
10°-20°	1121.2	10.3
20°-30°	1669.2	15.3
30°-40°	1964.8	18.0
40°-50°	1969.9	18.1
50°-60°	1727.5	15.9
60°-70°	1263.2	11.6
70°-80°	651.0	6.0
80°-90°	130.6	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°	3189.1	29.3
0°-40°	5153.9	47.3
0°-60°	8851.3	81.2
0°-90°	10896.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10896.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4242	4242	4242	4242	4242	
5°	4226	4198	4196	4224	4203	400
15°	3971	3978	3966	3992	3968	1117
25°	3565	3581	3634	3686	3646	1642
35°	3066	3080	3166	3201	3180	1910
45°	2463	2475	2579	2612	2605	1898
55°	1842	1883	1951	1978	1962	1653
65°	1232	1259	1301	1296	1276	1218
75°	615	619	640	596	559	651
85°	109	107	104	84	76	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4242.1	4242.1	4242.1	4242.1	4242.1
2.5°	4263.0	4242.1	4214.3	4237.5	4232.8
5°	4225.9	4198.0	4195.7	4223.5	4202.7
7.5°	4179.5	4174.8	4147.0	4177.2	4165.6
10°	4119.2	4114.5	4105.3	4126.1	4109.9
12.5°	4047.3	4042.6	4047.3	4058.9	4047.3
15°	3970.7	3977.7	3966.1	3991.6	3968.4
17.5°	3868.7	3875.6	3898.8	3908.1	3905.8
20°	3785.2	3789.8	3817.7	3854.8	3815.3
22.5°	3676.2	3687.8	3701.7	3768.9	3759.7
25°	3564.8	3581.1	3634.4	3685.5	3646.0
27.5°	3448.9	3465.1	3530.1	3567.2	3562.5
30°	3323.6	3339.9	3421.0	3472.1	3448.9
32.5°	3193.7	3221.6	3309.7	3353.8	3309.7
35°	3066.2	3080.1	3165.9	3200.7	3179.8
37.5°	2896.9	2950.2	3036.0	3059.2	3022.1
40°	2769.3	2771.6	2894.6	2894.6	2892.2
42.5°	2604.6	2641.7	2722.9	2767.0	2743.8
45°	2463.2	2474.7	2579.1	2611.6	2604.6
47.5°	2307.8	2354.1	2430.7	2467.8	2449.2
50°	2154.7	2187.1	2266.0	2314.7	2296.2
52.5°	2013.2	2038.7	2119.9	2147.7	2129.2
55°	1841.6	1883.3	1950.6	1978.4	1962.2
57.5°	1693.1	1723.3	1806.8	1816.1	1806.8
60°	1537.7	1572.5	1639.8	1646.7	1628.2
62.5°	1389.3	1412.5	1472.8	1475.1	1454.2
65°	1231.6	1259.4	1301.2	1296.5	1275.6
67.5°	1076.2	1094.7	1134.2	1117.9	1094.7
70°	918.5	934.7	967.2	944.0	923.1
72.5°	765.4	777.0	804.8	770.0	744.5
75°	614.6	619.3	640.1	596.1	559.0
77.5°	466.2	470.8	482.4	438.4	396.6
80°	331.7	331.7	336.3	289.9	262.1
82.5°	208.7	208.7	206.4	171.6	155.4
85°	109.0	106.7	104.4	83.5	76.5
87.5°	39.4	39.4	32.5	30.2	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)