

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: P485876

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1STD-50-120-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: P485876
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-50-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

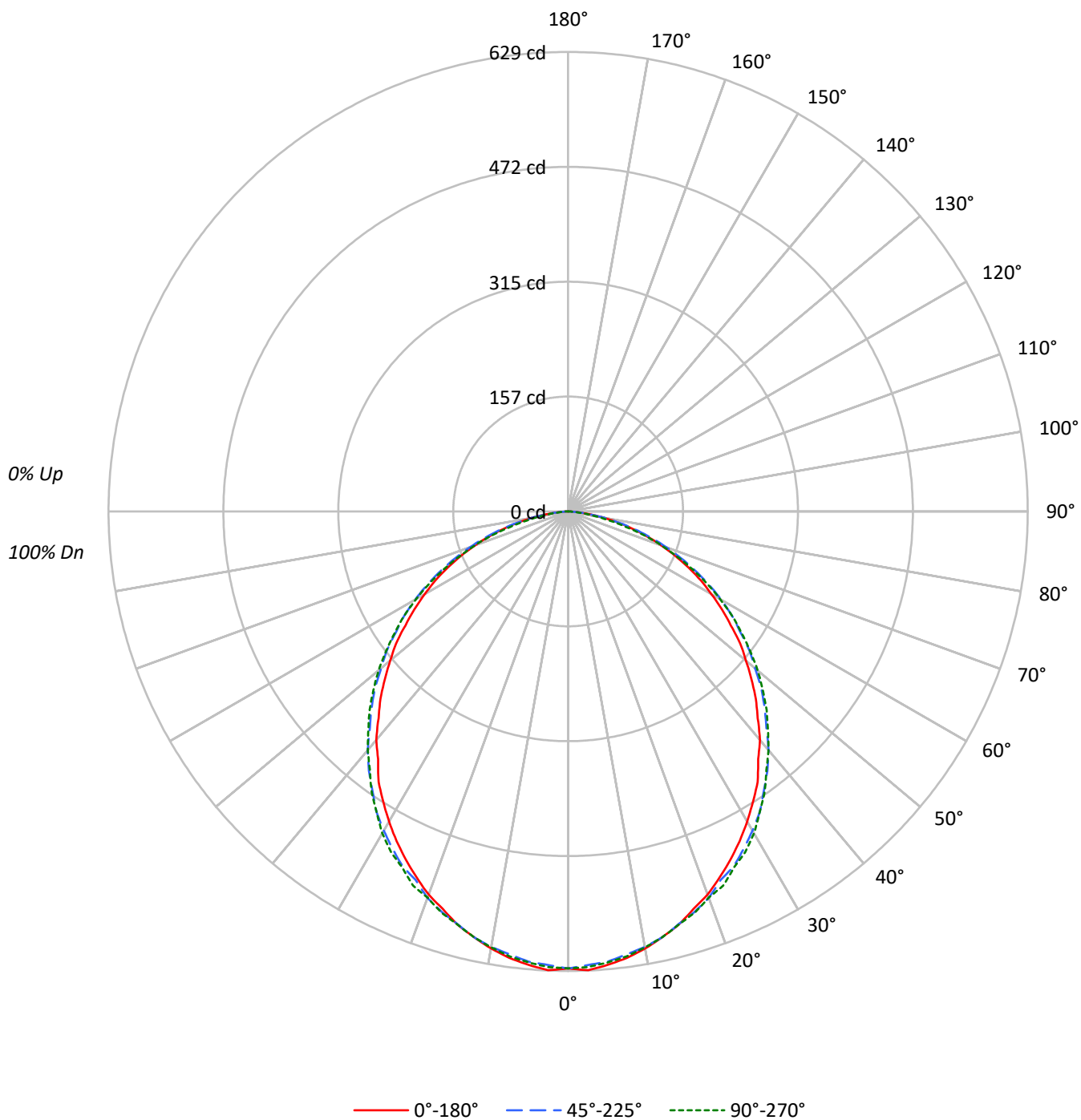
Lumens per Lamp: N/A
Luminaire Lumens: 1606.7 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1STD-50-120-EDD-90

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°	1683	1683	1683
5°	1683	1671	1674
10°	1660	1654	1656
15°	1631	1629	1630
20°	1598	1612	1611
25°	1561	1591	1596
30°	1523	1568	1580
35°	1485	1533	1540
40°	1435	1499	1498
45°	1382	1447	1462
50°	1330	1399	1418
55°	1274	1349	1357
60°	1220	1301	1292
65°	1156	1222	1198
70°	1065	1122	1071
75°	942	981	857
80°	758	769	598
85°	497	475	349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	3.7
10°-20°	165.3	10.3
20°-30°	246.1	15.3
30°-40°	289.7	18.0
40°-50°	290.5	18.1
50°-60°	254.7	15.9
60°-70°	186.3	11.6
70°-80°	96.0	6.0
80°-90°	19.3	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°	470.3	29.3
0°-40°	760.0	47.3
0°-60°	1305.2	81.2
0°-90°	1606.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1606.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	623	619	619	623	620	59
15°	586	586	585	589	585	165
25°	526	528	536	543	538	242
35°	452	454	467	472	469	282
45°	363	365	380	385	384	280
55°	272	278	288	292	289	244
65°	182	186	192	191	188	180
75°	91	91	94	88	82	96
85°	16	16	15	12	11	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	625.5	625.5	625.5	625.5	625.5
2.5°	628.6	625.5	621.4	624.8	624.2
5°	623.1	619.0	618.7	622.8	619.7
7.5°	616.3	615.6	611.5	615.9	614.2
10°	607.4	606.7	605.3	608.4	606.0
12.5°	596.8	596.1	596.8	598.5	596.8
15°	585.5	586.5	584.8	588.6	585.2
17.5°	570.5	571.5	574.9	576.3	575.9
20°	558.1	558.8	562.9	568.4	562.6
22.5°	542.1	543.8	545.8	555.8	554.4
25°	525.7	528.1	535.9	543.4	537.6
27.5°	508.6	511.0	520.5	526.0	525.3
30°	490.1	492.5	504.5	512.0	508.6
32.5°	470.9	475.0	488.0	494.5	488.0
35°	452.1	454.2	466.8	472.0	468.9
37.5°	427.2	435.0	447.7	451.1	445.6
40°	408.4	408.7	426.8	426.8	426.5
42.5°	384.1	389.5	401.5	408.0	404.6
45°	363.2	364.9	380.3	385.1	384.1
47.5°	340.3	347.1	358.4	363.9	361.2
50°	317.7	322.5	334.1	341.3	338.6
52.5°	296.9	300.6	312.6	316.7	314.0
55°	271.6	277.7	287.6	291.7	289.3
57.5°	249.7	254.1	266.4	267.8	266.4
60°	226.7	231.9	241.8	242.8	240.1
62.5°	204.9	208.3	217.2	217.5	214.4
65°	181.6	185.7	191.9	191.2	188.1
67.5°	158.7	161.4	167.2	164.8	161.4
70°	135.4	137.8	142.6	139.2	136.1
72.5°	112.9	114.6	118.7	113.5	109.8
75°	90.6	91.3	94.4	87.9	82.4
77.5°	68.7	69.4	71.1	64.6	58.5
80°	48.9	48.9	49.6	42.8	38.6
82.5°	30.8	30.8	30.4	25.3	22.9
85°	16.1	15.7	15.4	12.3	11.3
87.5°	5.8	5.8	4.8	4.4	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)