

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: P485895

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2LO-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: P485895
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-30-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

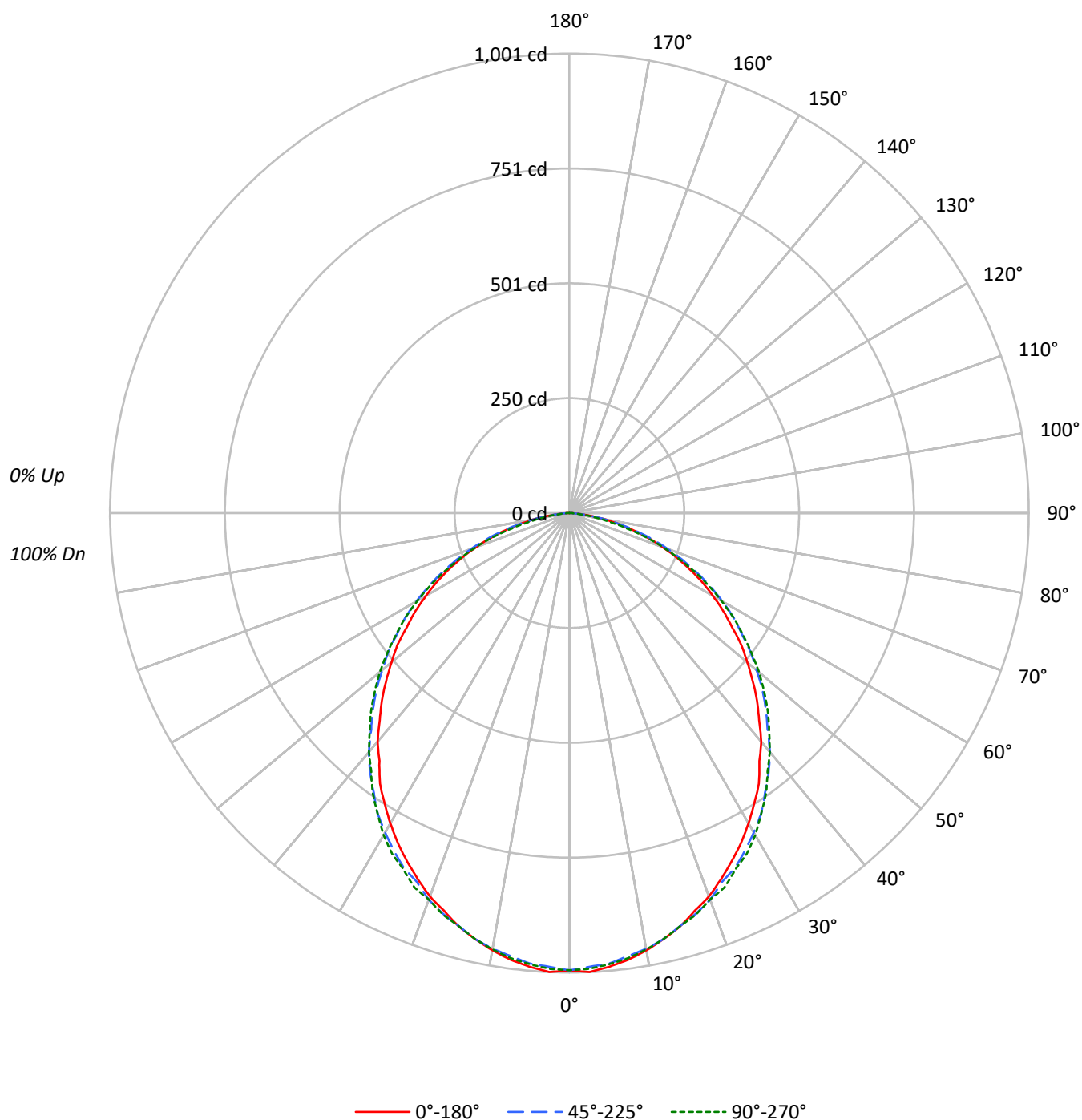
Lumens per Lamp: N/A
Luminaire Lumens: 2558.5 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2LO-30-120-EDD

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°	2680	2680	2680
5°	2680	2661	2666
10°	2643	2634	2637
15°	2598	2595	2596
20°	2545	2567	2566
25°	2485	2534	2542
30°	2425	2496	2516
35°	2365	2442	2453
40°	2284	2388	2386
45°	2201	2305	2328
50°	2118	2228	2257
55°	2029	2149	2161
60°	1943	2072	2058
65°	1841	1945	1907
70°	1697	1787	1706
75°	1500	1563	1364
80°	1207	1224	953
85°	790	756	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	3.7
10°-20°	263.3	10.3
20°-30°	391.9	15.3
30°-40°	461.4	18.0
40°-50°	462.6	18.1
50°-60°	405.6	15.9
60°-70°	296.6	11.6
70°-80°	152.9	6.0
80°-90°	30.7	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°	748.8	29.3
0°-40°	1210.2	47.3
0°-60°	2078.4	81.2
0°-90°	2558.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2558.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	992	986	985	992	987	94
15°	932	934	931	937	932	262
25°	837	841	853	865	856	386
35°	720	723	743	752	747	448
45°	578	581	606	613	612	446
55°	432	442	458	464	461	388
65°	289	296	306	304	300	286
75°	144	145	150	140	131	153
85°	26	25	24	20	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	996.1	996.1	996.1	996.1	996.1
2.5°	1001.0	996.1	989.5	995.0	993.9
5°	992.3	985.7	985.2	991.7	986.8
7.5°	981.4	980.3	973.8	980.8	978.1
10°	967.2	966.1	963.9	968.9	965.0
12.5°	950.3	949.2	950.3	953.1	950.3
15°	932.4	934.0	931.3	937.3	931.8
17.5°	908.4	910.0	915.5	917.7	917.1
20°	888.8	889.9	896.4	905.1	895.9
22.5°	863.2	865.9	869.2	885.0	882.8
25°	837.1	840.9	853.4	865.4	856.1
27.5°	809.8	813.6	828.9	837.6	836.5
30°	780.4	784.2	803.3	815.3	809.8
32.5°	749.9	756.5	777.2	787.5	777.2
35°	720.0	723.2	743.4	751.6	746.7
37.5°	680.2	692.7	712.9	718.3	709.6
40°	650.3	650.8	679.7	679.7	679.1
42.5°	611.6	620.3	639.4	649.7	644.3
45°	578.4	581.1	605.6	613.2	611.6
47.5°	541.9	552.8	570.7	579.5	575.1
50°	505.9	513.6	532.1	543.5	539.2
52.5°	472.7	478.7	497.8	504.3	499.9
55°	432.4	442.2	458.0	464.5	460.7
57.5°	397.6	404.6	424.2	426.4	424.2
60°	361.1	369.2	385.0	386.7	382.3
62.5°	326.2	331.7	345.8	346.4	341.5
65°	289.2	295.7	305.5	304.4	299.5
67.5°	252.7	257.1	266.3	262.5	257.1
70°	215.7	219.5	227.1	221.7	216.8
72.5°	179.7	182.4	189.0	180.8	174.8
75°	144.3	145.4	150.3	140.0	131.2
77.5°	109.5	110.6	113.3	102.9	93.1
80°	77.9	77.9	79.0	68.1	61.5
82.5°	49.0	49.0	48.5	40.3	36.5
85°	25.6	25.1	24.5	19.6	18.0
87.5°	9.3	9.3	7.6	7.1	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)