

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: P486015

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5STD-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: P486015
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-LD4-5STD-30-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

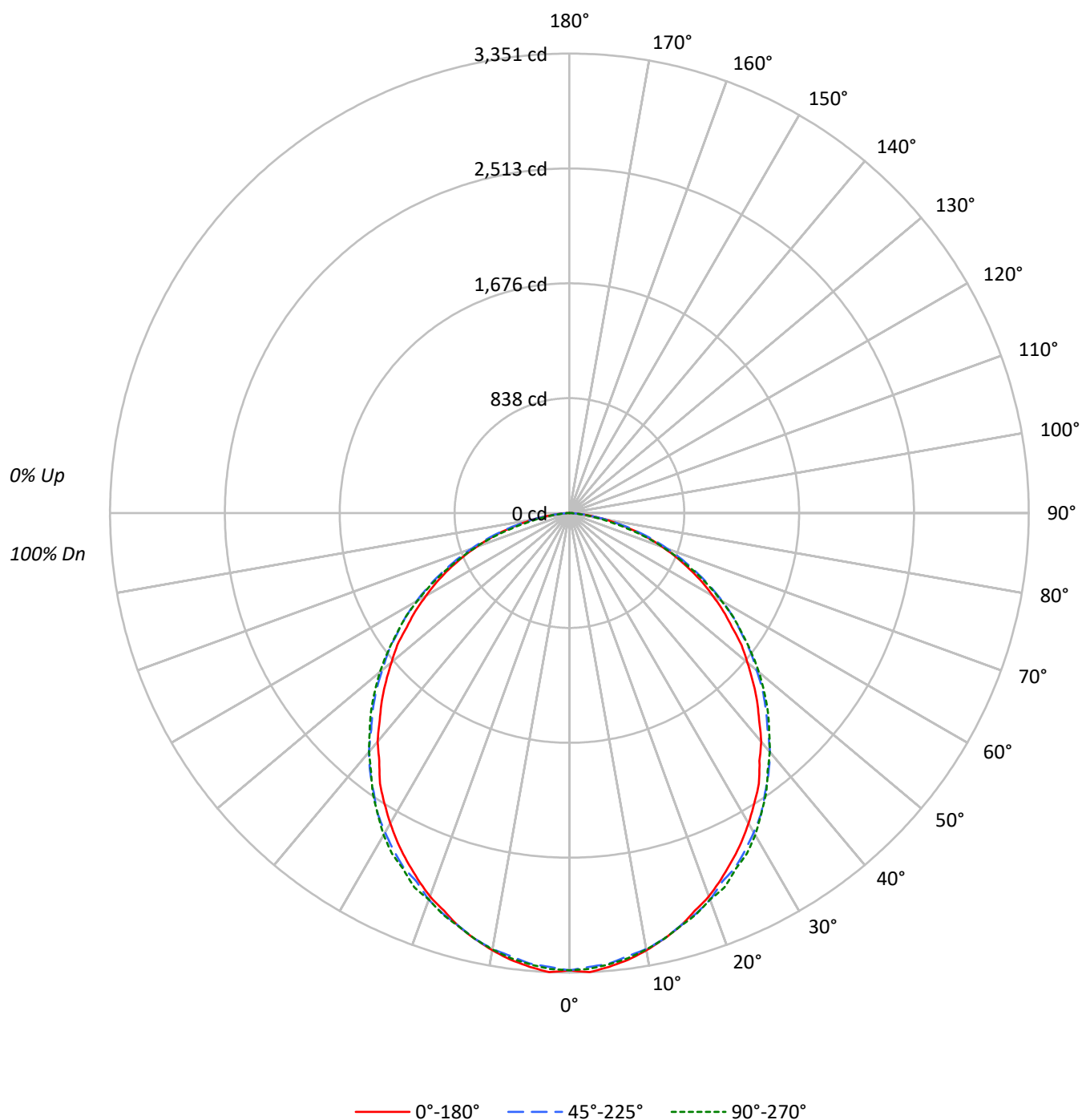
Lumens per Lamp: N/A
Luminaire Lumens: 8565.5 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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°	8974	8974	8974
5°	8974	8910	8924
10°	8848	8818	8828
15°	8696	8686	8691
20°	8521	8594	8589
25°	8320	8483	8510
30°	8118	8356	8424
35°	7918	8176	8212
40°	7647	7993	7987
45°	7369	7716	7792
50°	7091	7457	7556
55°	6792	7194	7237
60°	6506	6937	6888
65°	6165	6513	6385
70°	5681	5982	5710
75°	5024	5232	4569
80°	4040	4097	3192
85°	2646	2532	1859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.4	3.7
10°-20°	881.4	10.3
20°-30°	1312.2	15.3
30°-40°	1544.5	18.0
40°-50°	1548.6	18.1
50°-60°	1358.0	15.9
60°-70°	993.0	11.6
70°-80°	511.7	6.0
80°-90°	102.7	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°	2507.0	29.3
0°-40°	4051.5	47.3
0°-60°	6958.1	81.2
0°-90°	8565.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8565.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3335	3335	3335	3335	3335	
5°	3322	3300	3298	3320	3304	314
15°	3121	3127	3118	3138	3120	878
25°	2802	2815	2857	2897	2866	1291
35°	2410	2421	2489	2516	2500	1501
45°	1936	1945	2028	2053	2048	1492
55°	1448	1480	1533	1555	1542	1299
65°	968	990	1023	1019	1003	958
75°	483	487	503	469	439	512
85°	86	84	82	66	60	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3334.7	3334.7	3334.7	3334.7	3334.7
2.5°	3351.2	3334.7	3312.9	3331.1	3327.4
5°	3322.0	3300.1	3298.3	3320.2	3303.7
7.5°	3285.5	3281.9	3260.0	3283.7	3274.6
10°	3238.1	3234.5	3227.2	3243.6	3230.8
12.5°	3181.6	3177.9	3181.6	3190.7	3181.6
15°	3121.4	3126.9	3117.8	3137.8	3119.6
17.5°	3041.2	3046.7	3064.9	3072.2	3070.4
20°	2975.6	2979.2	3001.1	3030.3	2999.3
22.5°	2889.9	2899.0	2909.9	2962.8	2955.5
25°	2802.3	2815.1	2857.0	2897.2	2866.2
27.5°	2711.2	2723.9	2775.0	2804.2	2800.5
30°	2612.7	2625.5	2689.3	2729.4	2711.2
32.5°	2510.6	2532.5	2601.8	2636.4	2601.8
35°	2410.3	2421.3	2488.7	2516.1	2499.7
37.5°	2277.3	2319.2	2386.6	2404.9	2375.7
40°	2177.0	2178.8	2275.4	2275.4	2273.6
42.5°	2047.5	2076.7	2140.5	2175.1	2156.9
45°	1936.3	1945.4	2027.5	2053.0	2047.5
47.5°	1814.1	1850.6	1910.8	1939.9	1925.4
50°	1693.8	1719.3	1781.3	1819.6	1805.0
52.5°	1582.6	1602.6	1666.5	1688.3	1673.8
55°	1447.7	1480.5	1533.4	1555.2	1542.5
57.5°	1331.0	1354.7	1420.3	1427.6	1420.3
60°	1208.8	1236.2	1289.0	1294.5	1279.9
62.5°	1092.1	1110.4	1157.8	1159.6	1143.2
65°	968.2	990.0	1022.8	1019.2	1002.8
67.5°	846.0	860.6	891.6	878.8	860.6
70°	722.0	734.8	760.3	742.1	725.7
72.5°	601.7	610.8	632.7	605.3	585.3
75°	483.2	486.8	503.2	468.6	439.4
77.5°	366.5	370.1	379.2	344.6	311.8
80°	260.7	260.7	264.4	227.9	206.0
82.5°	164.1	164.1	162.3	134.9	122.2
85°	85.7	83.9	82.0	65.6	60.2
87.5°	31.0	31.0	25.5	23.7	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)