

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: P486051

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6STD-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: P486051
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-30-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

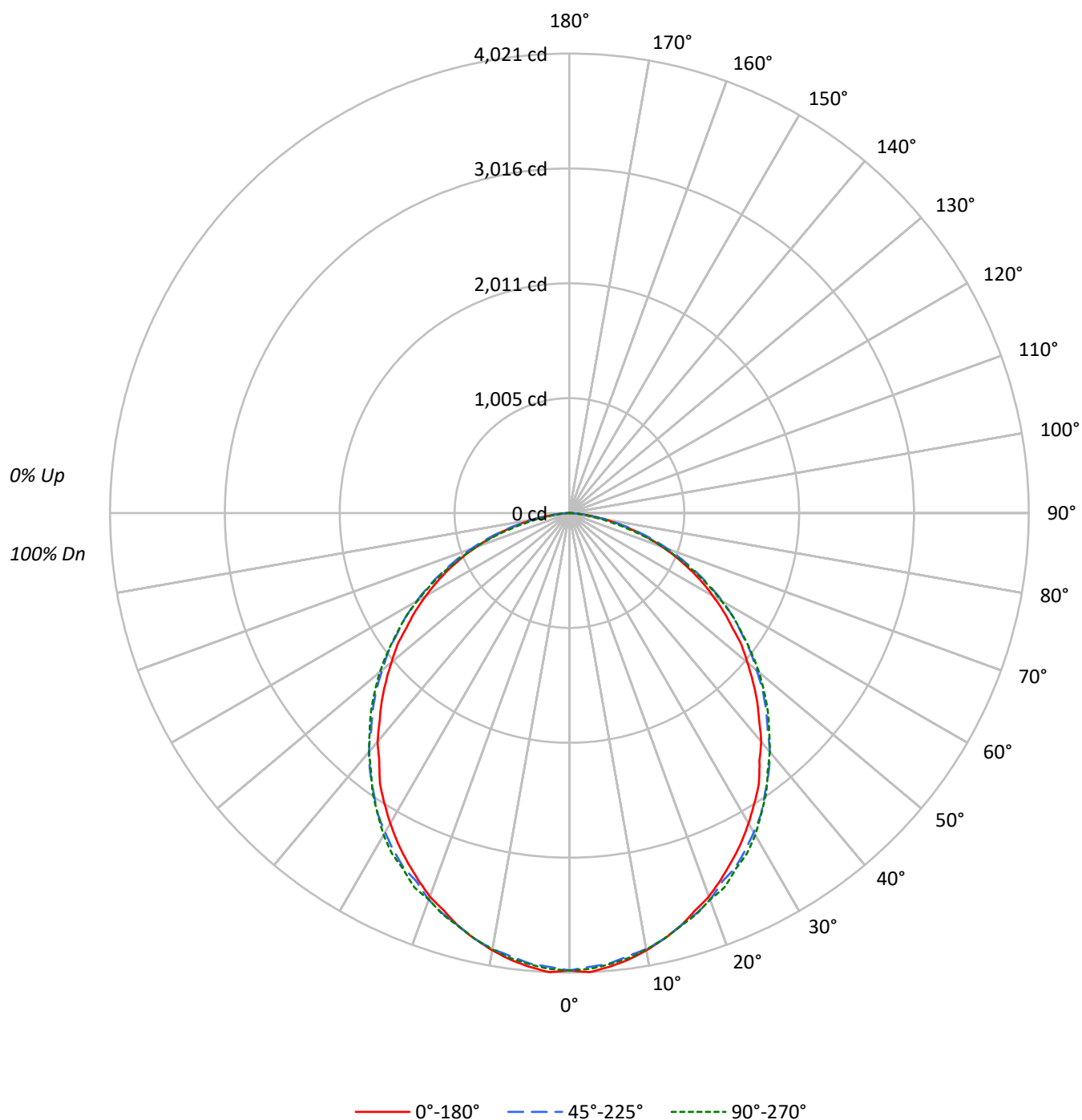
Lumens per Lamp: N/A
Luminaire Lumens: 10278.6 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	10768	10768	10768
5°	10768	10691	10709
10°	10618	10582	10594
15°	10435	10423	10429
20°	10225	10313	10307
25°	9985	10180	10212
30°	9742	10028	10109
35°	9502	9811	9854
40°	9177	9592	9584
45°	8843	9259	9350
50°	8509	8949	9068
55°	8150	8633	8684
60°	7807	8325	8266
65°	7398	7815	7663
70°	6817	7179	6851
75°	6028	6279	5482
80°	4849	4916	3831
85°	3174	3041	2229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.1	3.7
10°-20°	1057.6	10.3
20°-30°	1574.6	15.3
30°-40°	1853.4	18.0
40°-50°	1858.3	18.1
50°-60°	1629.6	15.9
60°-70°	1191.6	11.6
70°-80°	614.1	6.0
80°-90°	123.2	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°	3008.4	29.3
0°-40°	4861.8	47.3
0°-60°	8349.7	81.2
0°-90°	10278.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10278.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4002	4002	4002	4002	4002	
5°	3986	3960	3958	3984	3964	377
15°	3746	3752	3741	3765	3744	1054
25°	3363	3378	3428	3477	3439	1549
35°	2892	2906	2986	3019	3000	1801
45°	2324	2334	2433	2464	2457	1791
55°	1737	1777	1840	1866	1851	1559
65°	1162	1188	1227	1223	1203	1149
75°	580	584	604	562	527	614
85°	103	101	98	79	72	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4001.7	4001.7	4001.7	4001.7	4001.7
2.5°	4021.4	4001.7	3975.4	3997.3	3992.9
5°	3986.4	3960.1	3957.9	3984.2	3964.5
7.5°	3942.6	3938.2	3912.0	3940.4	3929.5
10°	3885.7	3881.4	3872.6	3892.3	3877.0
12.5°	3817.9	3813.5	3817.9	3828.8	3817.9
15°	3745.7	3752.3	3741.3	3765.4	3743.5
17.5°	3649.4	3656.0	3677.9	3686.6	3684.4
20°	3570.7	3575.0	3601.3	3636.3	3599.1
22.5°	3467.8	3478.8	3491.9	3555.4	3546.6
25°	3362.8	3378.1	3428.5	3476.6	3439.4
27.5°	3253.4	3268.7	3330.0	3365.0	3360.6
30°	3135.3	3150.6	3227.2	3275.3	3253.4
32.5°	3012.8	3039.0	3122.1	3163.7	3122.1
35°	2892.4	2905.5	2986.5	3019.3	2999.6
37.5°	2732.7	2783.0	2864.0	2885.9	2850.8
40°	2612.4	2614.6	2730.5	2730.5	2728.3
42.5°	2457.0	2492.0	2568.6	2610.2	2588.3
45°	2323.6	2334.5	2433.0	2463.6	2457.0
47.5°	2177.0	2220.7	2292.9	2327.9	2310.4
50°	2032.6	2063.2	2137.6	2183.5	2166.0
52.5°	1899.1	1923.2	1999.8	2026.0	2008.5
55°	1737.2	1776.6	1840.0	1866.3	1851.0
57.5°	1597.2	1625.6	1704.4	1713.1	1704.4
60°	1450.6	1483.4	1546.9	1553.4	1535.9
62.5°	1310.6	1332.4	1389.3	1391.5	1371.8
65°	1161.8	1188.0	1227.4	1223.0	1203.4
67.5°	1015.2	1032.7	1069.9	1054.6	1032.7
70°	866.4	881.7	912.4	890.5	870.8
72.5°	722.0	733.0	759.2	726.4	702.3
75°	579.8	584.2	603.9	562.3	527.3
77.5°	439.8	444.1	455.1	413.5	374.1
80°	312.9	312.9	317.2	273.5	247.2
82.5°	196.9	196.9	194.7	161.9	146.6
85°	102.8	100.6	98.5	78.8	72.2
87.5°	37.2	37.2	30.6	28.4	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)