

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: P485979

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4STD-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: P485979
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-LD4-4STD-30-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

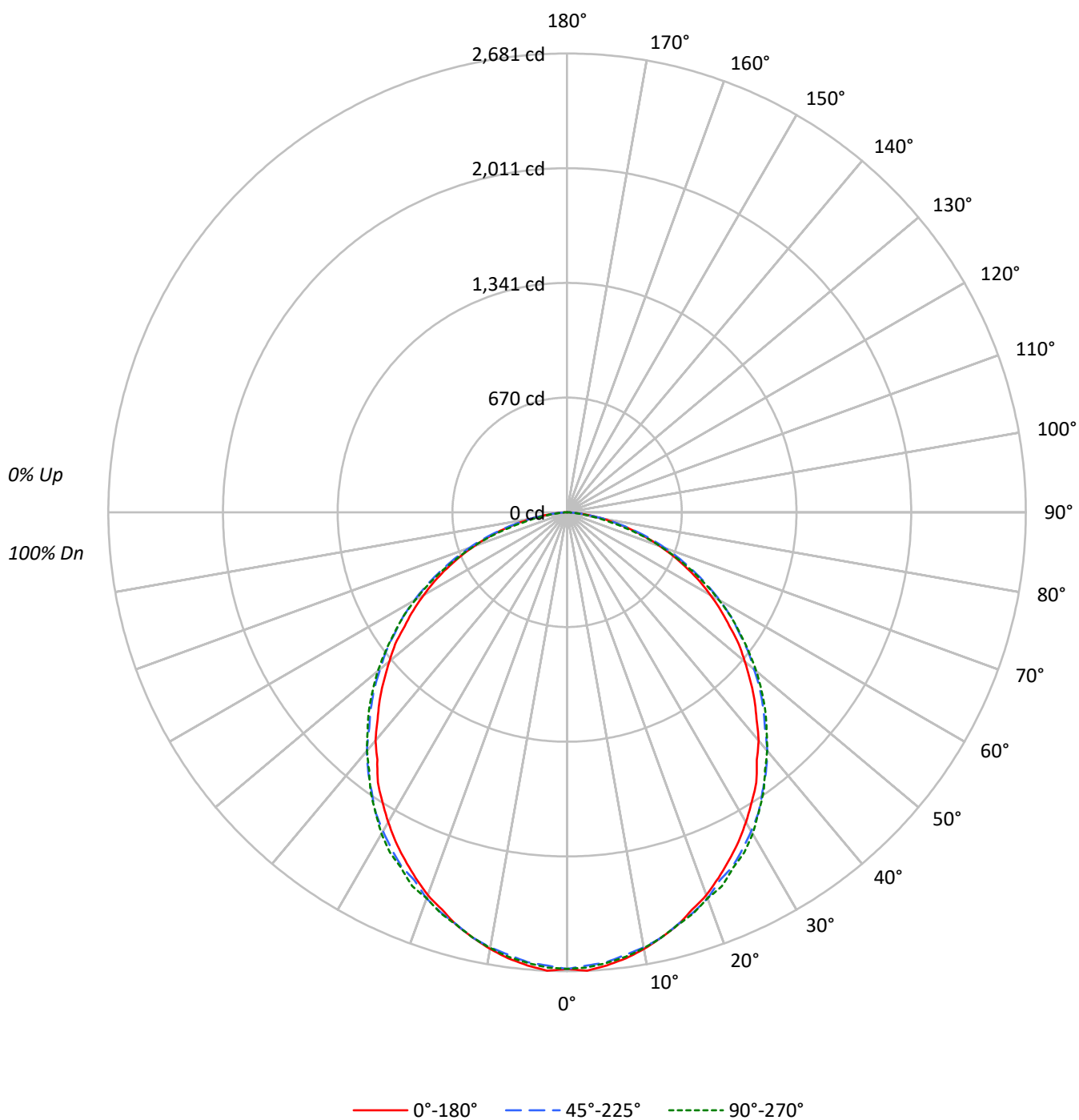
Lumens per Lamp: N/A
Luminaire Lumens: 6852.4 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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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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					10
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°	7179	7179	7179
5°	7179	7128	7139
10°	7079	7054	7063
15°	6957	6949	6953
20°	6817	6875	6871
25°	6657	6786	6808
30°	6495	6685	6739
35°	6335	6541	6569
40°	6118	6394	6389
45°	5895	6173	6234
50°	5673	5966	6045
55°	5433	5755	5789
60°	5205	5550	5511
65°	4932	5210	5108
70°	4544	4785	4567
75°	4018	4186	3655
80°	3233	3278	2554
85°	2118	2025	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.8	3.7
10°-20°	705.1	10.3
20°-30°	1049.7	15.3
30°-40°	1235.6	18.0
40°-50°	1238.9	18.1
50°-60°	1086.4	15.9
60°-70°	794.4	11.6
70°-80°	409.4	6.0
80°-90°	82.1	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°	2005.6	29.3
0°-40°	3241.2	47.3
0°-60°	5566.5	81.2
0°-90°	6852.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6852.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2668	2668	2668	2668	2668	
5°	2658	2640	2639	2656	2643	252
15°	2497	2502	2494	2510	2496	703
25°	2242	2252	2286	2318	2293	1033
35°	1928	1937	1991	2013	2000	1201
45°	1549	1556	1622	1642	1638	1194
55°	1158	1184	1227	1244	1234	1040
65°	774	792	818	815	802	766
75°	386	389	403	375	352	410
85°	69	67	66	52	48	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2667.8	2667.8	2667.8	2667.8	2667.8
2.5°	2680.9	2667.8	2650.3	2664.9	2662.0
5°	2657.6	2640.1	2638.6	2656.1	2643.0
7.5°	2628.4	2625.5	2608.0	2627.0	2619.7
10°	2590.5	2587.6	2581.7	2594.9	2584.7
12.5°	2545.3	2542.4	2545.3	2552.6	2545.3
15°	2497.1	2501.5	2494.2	2510.3	2495.7
17.5°	2433.0	2437.3	2451.9	2457.8	2456.3
20°	2380.4	2383.4	2400.9	2424.2	2399.4
22.5°	2311.9	2319.2	2327.9	2370.2	2364.4
25°	2241.9	2252.1	2285.6	2317.7	2292.9
27.5°	2168.9	2179.2	2220.0	2243.3	2240.4
30°	2090.2	2100.4	2151.4	2183.5	2168.9
32.5°	2008.5	2026.0	2081.4	2109.1	2081.4
35°	1928.3	1937.0	1991.0	2012.9	1999.8
37.5°	1821.8	1855.3	1909.3	1923.9	1900.6
40°	1741.6	1743.0	1820.3	1820.3	1818.9
42.5°	1638.0	1661.4	1712.4	1740.1	1725.5
45°	1549.0	1556.3	1622.0	1642.4	1638.0
47.5°	1451.3	1480.5	1528.6	1552.0	1540.3
50°	1355.0	1375.5	1425.1	1455.7	1444.0
52.5°	1266.1	1282.1	1333.2	1350.7	1339.0
55°	1158.1	1184.4	1226.7	1244.2	1234.0
57.5°	1064.8	1083.7	1136.3	1142.1	1136.3
60°	967.1	988.9	1031.2	1035.6	1023.9
62.5°	873.7	888.3	926.2	927.7	914.5
65°	774.5	792.0	818.3	815.4	802.2
67.5°	676.8	688.5	713.3	703.0	688.5
70°	577.6	587.8	608.2	593.7	580.5
72.5°	481.3	488.6	506.1	484.3	468.2
75°	386.5	389.4	402.6	374.9	351.5
77.5°	293.2	296.1	303.4	275.7	249.4
80°	208.6	208.6	211.5	182.3	164.8
82.5°	131.3	131.3	129.8	107.9	97.7
85°	68.6	67.1	65.6	52.5	48.1
87.5°	24.8	24.8	20.4	19.0	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)