

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: P486005

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5LO-35-120-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: P486005
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-LD4-5LO-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

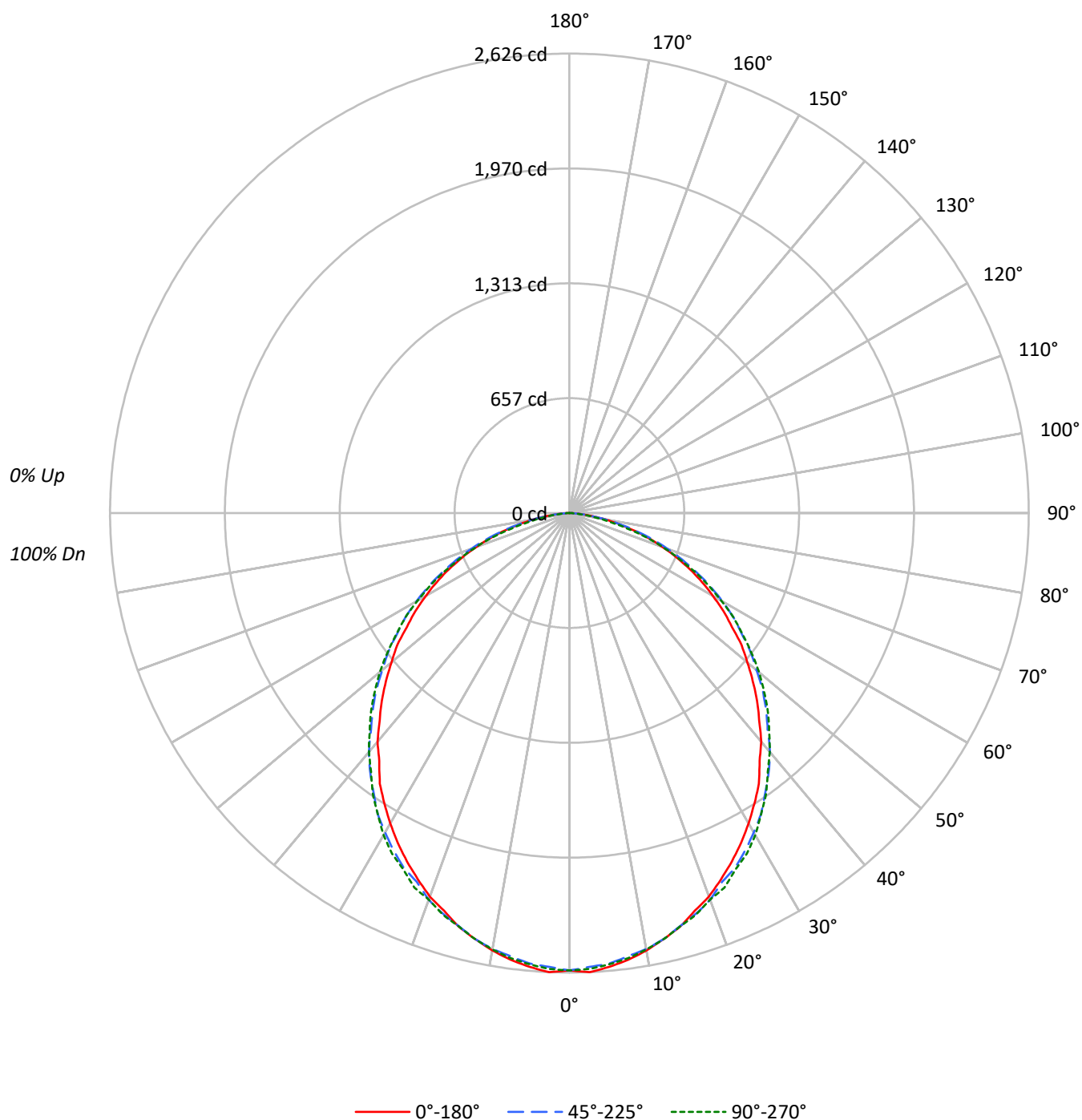
Lumens per Lamp: N/A
Luminaire Lumens: 6713.3 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	7033	7033	7033
5°	7033	6983	6994
10°	6935	6911	6919
15°	6815	6808	6812
20°	6678	6736	6732
25°	6521	6649	6670
30°	6363	6550	6603
35°	6206	6408	6436
40°	5994	6265	6260
45°	5775	6047	6107
50°	5557	5845	5923
55°	5323	5638	5672
60°	5099	5437	5399
65°	4832	5105	5004
70°	4452	4688	4474
75°	3937	4101	3581
80°	3166	3211	2503
85°	2075	1985	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	3.7
10°-20°	690.8	10.3
20°-30°	1028.4	15.3
30°-40°	1210.5	18.0
40°-50°	1213.7	18.1
50°-60°	1064.3	15.9
60°-70°	778.3	11.6
70°-80°	401.1	6.0
80°-90°	80.5	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°	1964.9	29.3
0°-40°	3175.4	47.3
0°-60°	5453.5	81.2
0°-90°	6713.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6713.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2614	2614	2614	2614	2614	
5°	2604	2586	2585	2602	2589	246
15°	2446	2451	2444	2459	2445	689
25°	2196	2206	2239	2271	2246	1012
35°	1889	1898	1951	1972	1959	1176
45°	1518	1525	1589	1609	1605	1170
55°	1135	1160	1202	1219	1209	1018
65°	759	776	802	799	786	751
75°	379	382	394	367	344	401
85°	67	66	64	51	47	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2613.6	2613.6	2613.6	2613.6	2613.6
2.5°	2626.5	2613.6	2596.5	2610.8	2607.9
5°	2603.6	2586.5	2585.1	2602.2	2589.3
7.5°	2575.1	2572.2	2555.0	2573.6	2566.5
10°	2537.9	2535.0	2529.3	2542.2	2532.2
12.5°	2493.6	2490.7	2493.6	2500.7	2493.6
15°	2446.4	2450.7	2443.6	2459.3	2445.0
17.5°	2383.6	2387.9	2402.1	2407.9	2406.4
20°	2332.1	2335.0	2352.1	2375.0	2350.7
22.5°	2265.0	2272.1	2280.7	2322.1	2316.4
25°	2196.4	2206.4	2239.2	2270.7	2246.4
27.5°	2124.9	2134.9	2174.9	2197.8	2194.9
30°	2047.8	2057.8	2107.8	2139.2	2124.9
32.5°	1967.7	1984.9	2039.2	2066.3	2039.2
35°	1889.1	1897.7	1950.6	1972.0	1959.2
37.5°	1784.8	1817.7	1870.6	1884.8	1862.0
40°	1706.2	1707.7	1783.4	1783.4	1782.0
42.5°	1604.8	1627.6	1677.6	1704.8	1690.5
45°	1517.6	1524.7	1589.0	1609.1	1604.8
47.5°	1421.9	1450.4	1497.6	1520.5	1509.0
50°	1327.5	1347.5	1396.1	1426.1	1414.7
52.5°	1240.4	1256.1	1306.1	1323.3	1311.8
55°	1134.6	1160.3	1201.8	1218.9	1208.9
57.5°	1043.2	1061.7	1113.2	1118.9	1113.2
60°	947.4	968.9	1010.3	1014.6	1003.2
62.5°	856.0	870.3	907.4	908.8	896.0
65°	758.8	775.9	801.7	798.8	785.9
67.5°	663.1	674.5	698.8	688.8	674.5
70°	565.9	575.9	595.9	581.6	568.7
72.5°	471.6	478.7	495.9	474.4	458.7
75°	378.7	381.5	394.4	367.3	344.4
77.5°	287.2	290.1	297.2	270.1	244.4
80°	204.3	204.3	207.2	178.6	161.5
82.5°	128.6	128.6	127.2	105.7	95.7
85°	67.2	65.7	64.3	51.4	47.2
87.5°	24.3	24.3	20.0	18.6	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)