

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: P485952

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4HI-27-120-EDD-90**

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: P485952
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-LD4-4HI-27-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

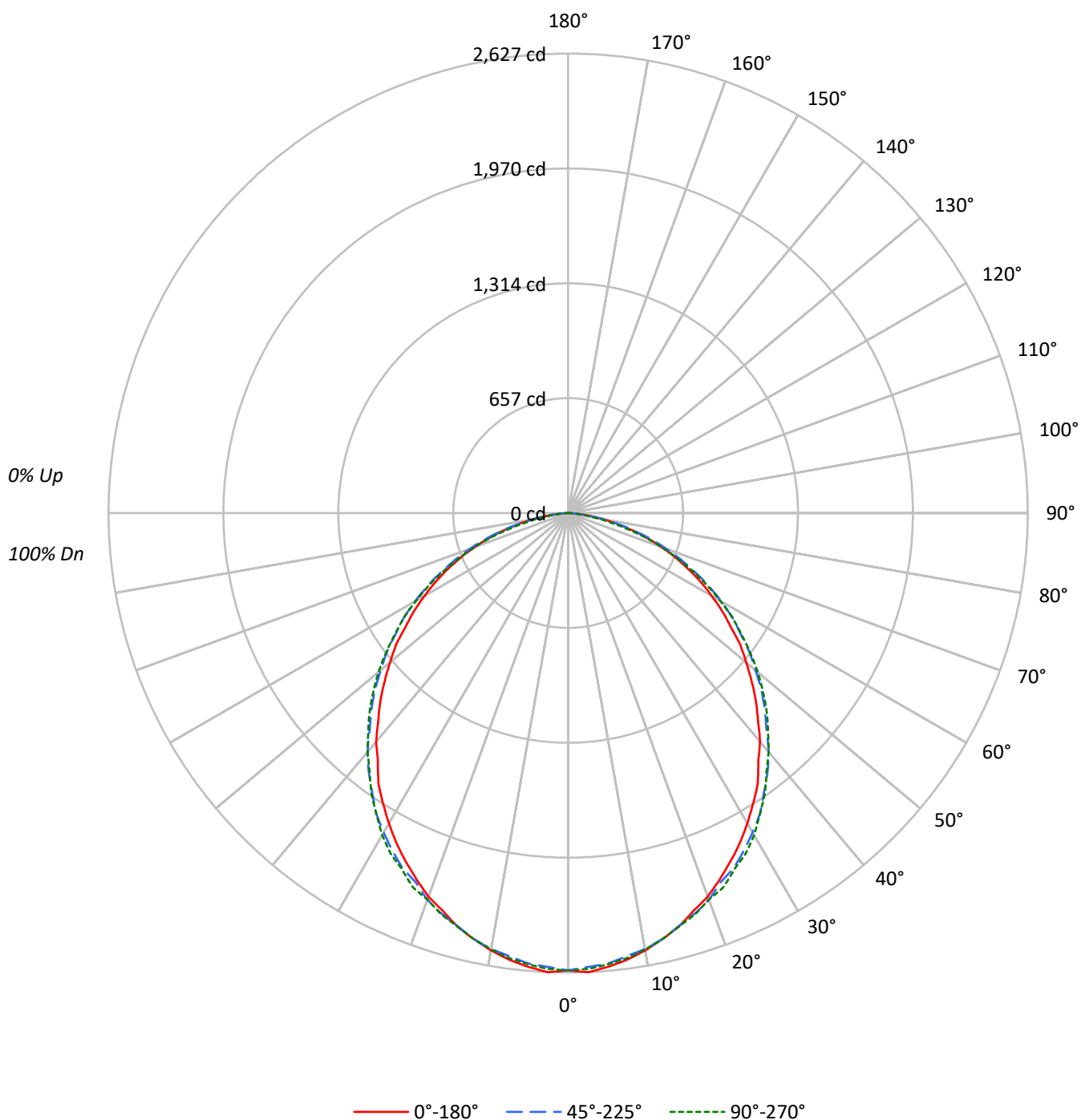
Lumens per Lamp: N/A
Luminaire Lumens: 6715.3 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	7035	7035	7035
5°	7035	6985	6997
10°	6937	6913	6921
15°	6818	6810	6813
20°	6680	6738	6734
25°	6523	6651	6672
30°	6365	6551	6605
35°	6208	6410	6438
40°	5995	6267	6262
45°	5777	6049	6109
50°	5559	5846	5924
55°	5325	5640	5674
60°	5100	5439	5401
65°	4833	5106	5006
70°	4454	4690	4476
75°	3938	4102	3582
80°	3168	3212	2503
85°	2075	1985	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	3.7
10°-20°	691.0	10.3
20°-30°	1028.8	15.3
30°-40°	1210.9	18.0
40°-50°	1214.1	18.1
50°-60°	1064.6	15.9
60°-70°	778.5	11.6
70°-80°	401.2	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°	1965.5	29.3
0°-40°	3176.4	47.3
0°-60°	5455.1	81.2
0°-90°	6715.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6715.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2614	2614	2614	2614	2614	
5°	2604	2587	2586	2603	2590	247
15°	2447	2452	2444	2460	2446	689
25°	2197	2207	2240	2271	2247	1012
35°	1890	1898	1951	1973	1960	1177
45°	1518	1525	1590	1610	1605	1170
55°	1135	1161	1202	1219	1209	1019
65°	759	776	802	799	786	751
75°	379	382	394	367	344	401
85°	67	66	64	52	47	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2614.4	2614.4	2614.4	2614.4	2614.4
2.5°	2627.3	2614.4	2597.3	2611.6	2608.7
5°	2604.4	2587.3	2585.8	2603.0	2590.1
7.5°	2575.8	2573.0	2555.8	2574.4	2567.2
10°	2538.7	2535.8	2530.1	2542.9	2532.9
12.5°	2494.3	2491.5	2494.3	2501.5	2494.3
15°	2447.2	2451.5	2444.3	2460.0	2445.7
17.5°	2384.3	2388.6	2402.9	2408.6	2407.2
20°	2332.8	2335.7	2352.8	2375.7	2351.4
22.5°	2265.6	2272.8	2281.4	2322.8	2317.1
25°	2197.0	2207.0	2239.9	2271.4	2247.1
27.5°	2125.6	2135.6	2175.6	2198.5	2195.6
30°	2048.4	2058.4	2108.4	2139.8	2125.6
32.5°	1968.3	1985.5	2039.8	2066.9	2039.8
35°	1889.7	1898.3	1951.2	1972.6	1959.7
37.5°	1785.4	1818.2	1871.1	1885.4	1862.5
40°	1706.7	1708.2	1783.9	1783.9	1782.5
42.5°	1605.2	1628.1	1678.1	1705.3	1691.0
45°	1518.0	1525.2	1589.5	1609.5	1605.2
47.5°	1422.3	1450.9	1498.0	1520.9	1509.5
50°	1327.9	1347.9	1396.5	1426.6	1415.1
52.5°	1240.7	1256.5	1306.5	1323.6	1312.2
55°	1135.0	1160.7	1202.1	1219.3	1209.3
57.5°	1043.5	1062.1	1113.5	1119.2	1113.5
60°	947.7	969.1	1010.6	1014.9	1003.5
62.5°	856.2	870.5	907.7	909.1	896.2
65°	759.0	776.2	801.9	799.0	786.2
67.5°	663.3	674.7	699.0	689.0	674.7
70°	566.1	576.1	596.1	581.8	568.9
72.5°	471.7	478.9	496.0	474.6	458.8
75°	378.8	381.7	394.5	367.4	344.5
77.5°	287.3	290.2	297.3	270.2	244.4
80°	204.4	204.4	207.3	178.7	161.5
82.5°	128.6	128.6	127.2	105.8	95.8
85°	67.2	65.8	64.3	51.5	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)