

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: P485844

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1HI-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: P485844
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-LD4-1HI-27-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

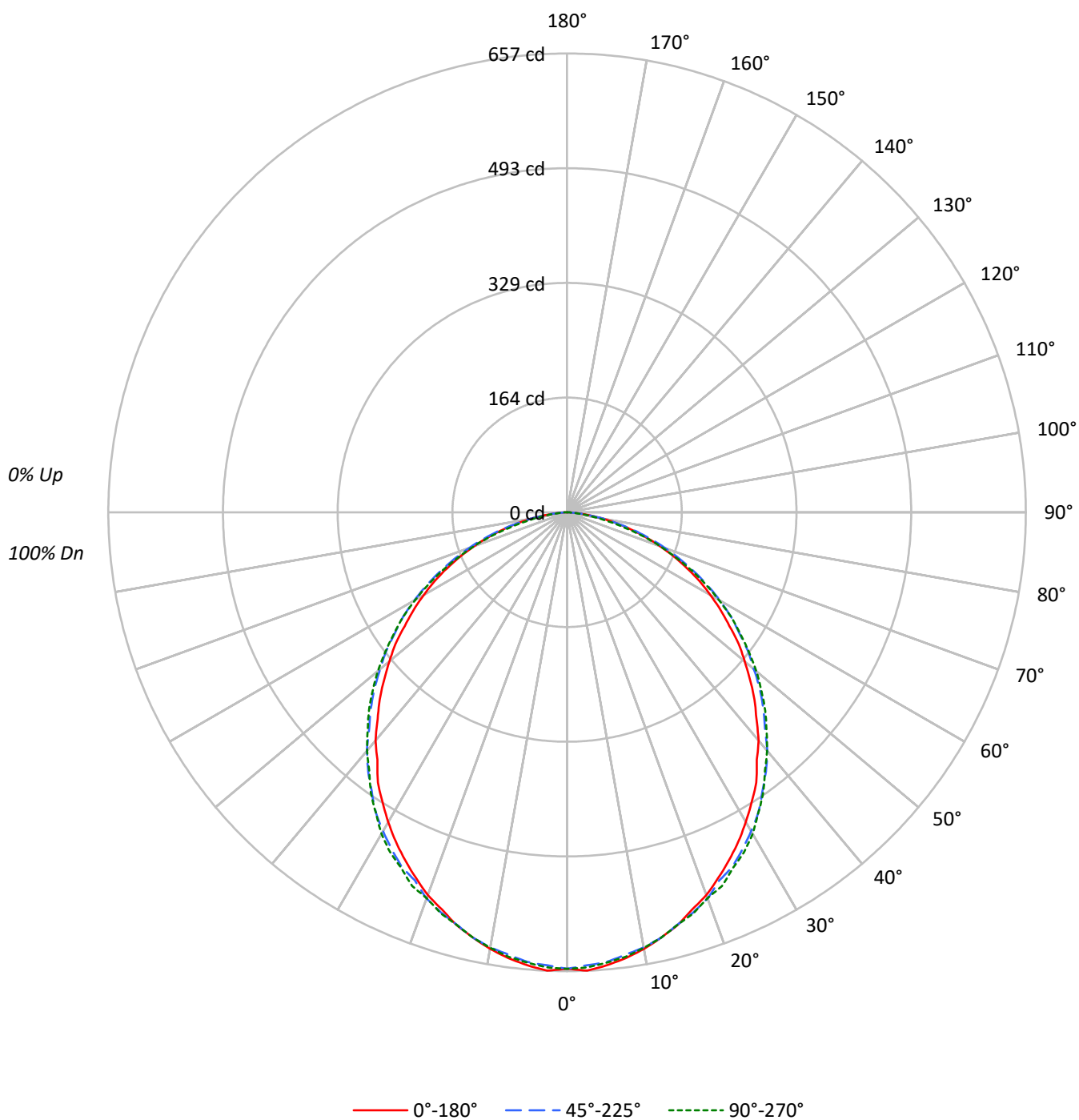
Lumens per Lamp: N/A
Luminaire Lumens: 1678.8 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85			
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60			
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1759	1759	1759
5°	1759	1746	1749
10°	1734	1728	1730
15°	1704	1702	1703
20°	1670	1684	1683
25°	1631	1663	1668
30°	1591	1638	1651
35°	1552	1602	1609
40°	1499	1567	1565
45°	1444	1512	1527
50°	1390	1461	1481
55°	1331	1410	1418
60°	1275	1359	1350
65°	1209	1277	1251
70°	1113	1172	1119
75°	985	1025	895
80°	792	803	626
85°	519	497	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	3.7
10°-20°	172.7	10.3
20°-30°	257.2	15.3
30°-40°	302.7	18.0
40°-50°	303.5	18.1
50°-60°	266.2	15.9
60°-70°	194.6	11.6
70°-80°	100.3	6.0
80°-90°	20.1	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°	491.4	29.3
0°-40°	794.1	47.3
0°-60°	1363.7	81.2
0°-90°	1678.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1678.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	654	654	654	654	654	
5°	651	647	646	651	648	62
15°	612	613	611	615	611	172
25°	549	552	560	568	562	253
35°	472	475	488	493	490	294
45°	380	381	397	402	401	292
55°	284	290	300	305	302	255
65°	190	194	200	200	196	188
75°	95	95	99	92	86	100
85°	17	16	16	13	12	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	653.6	653.6	653.6	653.6	653.6
2.5°	656.8	653.6	649.3	652.9	652.2
5°	651.1	646.8	646.4	650.7	647.5
7.5°	643.9	643.2	638.9	643.6	641.8
10°	634.7	633.9	632.5	635.7	633.2
12.5°	623.6	622.9	623.6	625.4	623.6
15°	611.8	612.9	611.1	615.0	611.4
17.5°	596.1	597.1	600.7	602.1	601.8
20°	583.2	583.9	588.2	593.9	587.8
22.5°	566.4	568.2	570.3	580.7	579.3
25°	549.2	551.7	560.0	567.8	561.8
27.5°	531.4	533.9	543.9	549.6	548.9
30°	512.1	514.6	527.1	535.0	531.4
32.5°	492.1	496.4	509.9	516.7	509.9
35°	472.4	474.6	487.8	493.1	489.9
37.5°	446.3	454.6	467.8	471.3	465.6
40°	426.7	427.0	446.0	446.0	445.6
42.5°	401.3	407.0	419.5	426.3	422.7
45°	379.5	381.3	397.4	402.4	401.3
47.5°	355.6	362.7	374.5	380.2	377.4
50°	332.0	337.0	349.1	356.6	353.8
52.5°	310.2	314.1	326.6	330.9	328.0
55°	283.7	290.2	300.5	304.8	302.3
57.5°	260.9	265.5	278.4	279.8	278.4
60°	236.9	242.3	252.6	253.7	250.9
62.5°	214.1	217.6	226.9	227.3	224.1
65°	189.8	194.0	200.5	199.8	196.5
67.5°	165.8	168.7	174.7	172.2	168.7
70°	141.5	144.0	149.0	145.4	142.2
72.5°	117.9	119.7	124.0	118.6	114.7
75°	94.7	95.4	98.6	91.8	86.1
77.5°	71.8	72.5	74.3	67.5	61.1
80°	51.1	51.1	51.8	44.7	40.4
82.5°	32.2	32.2	31.8	26.4	23.9
85°	16.8	16.4	16.1	12.9	11.8
87.5°	6.1	6.1	5.0	4.6	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)