

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: P485898

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2LO-40-120-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: P485898
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-LD4-2LO-40-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

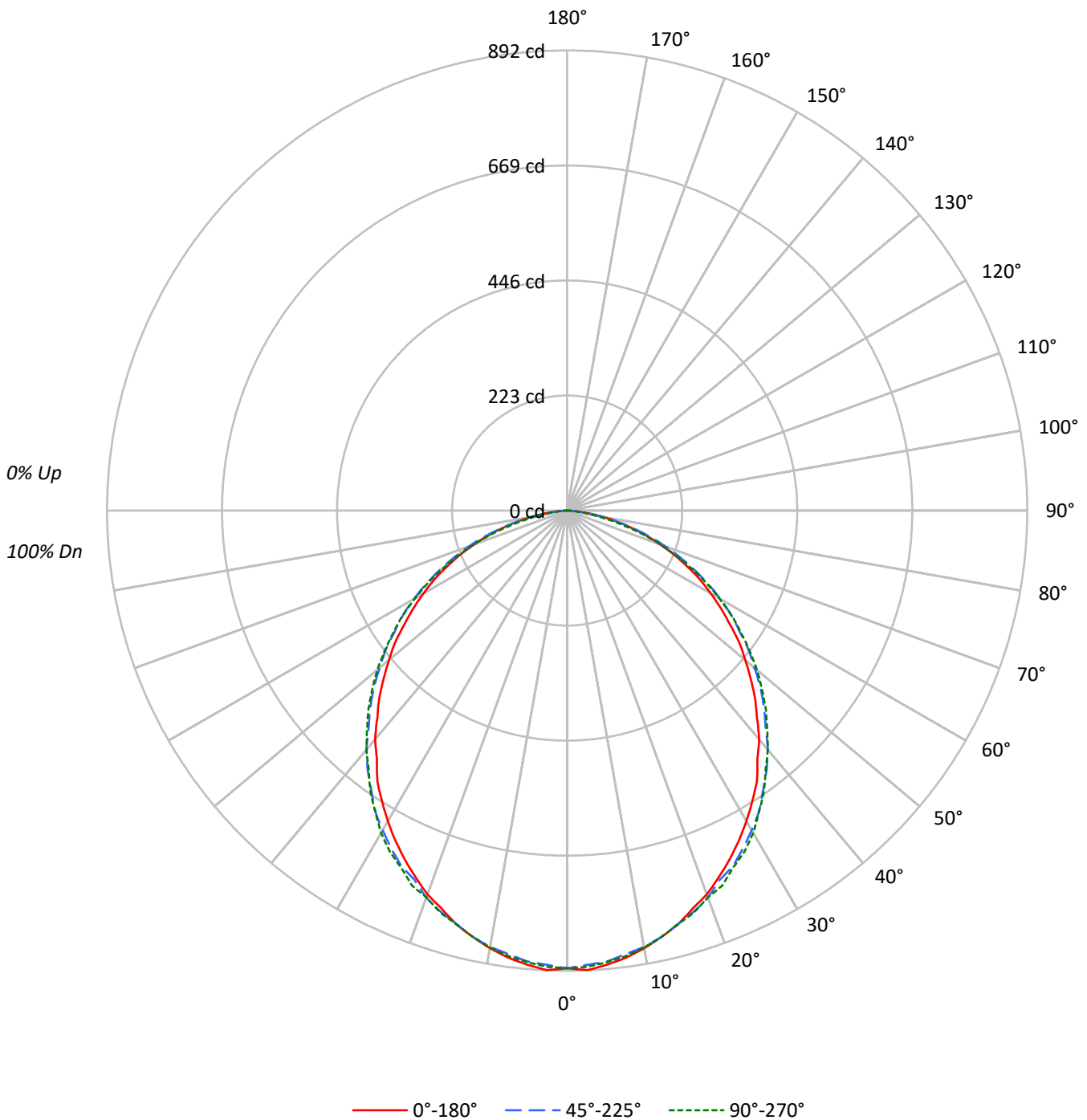
Lumens per Lamp: N/A
Luminaire Lumens: 2278.8 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	2387	2387	2387
5°	2387	2370	2374
10°	2354	2346	2349
15°	2313	2311	2312
20°	2267	2286	2285
25°	2214	2257	2264
30°	2160	2223	2241
35°	2107	2175	2185
40°	2035	2127	2125
45°	1960	2053	2073
50°	1886	1984	2010
55°	1807	1914	1925
60°	1731	1845	1833
65°	1640	1733	1699
70°	1511	1592	1519
75°	1336	1392	1215
80°	1075	1089	849
85°	704	673	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	3.7
10°-20°	234.5	10.3
20°-30°	349.1	15.3
30°-40°	410.9	18.0
40°-50°	412.0	18.1
50°-60°	361.3	15.9
60°-70°	264.2	11.6
70°-80°	136.1	6.0
80°-90°	27.3	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°	667.0	29.3
0°-40°	1077.9	47.3
0°-60°	1851.2	81.2
0°-90°	2278.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2278.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	884	878	878	883	879	84
15°	830	832	830	835	830	234
25°	746	749	760	771	762	343
35°	641	644	662	669	665	399
45°	515	518	539	546	545	397
55°	385	394	408	414	410	346
65°	258	263	272	271	267	255
75°	128	130	134	125	117	136
85°	23	22	22	18	16	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.2	887.2	887.2	887.2	887.2
2.5°	891.6	887.2	881.4	886.2	885.2
5°	883.8	878.0	877.5	883.3	878.9
7.5°	874.1	873.1	867.3	873.6	871.2
10°	861.5	860.5	858.6	862.9	859.5
12.5°	846.4	845.5	846.4	848.9	846.4
15°	830.4	831.9	829.5	834.8	829.9
17.5°	809.1	810.5	815.4	817.3	816.9
20°	791.6	792.6	798.4	806.2	797.9
22.5°	768.8	771.3	774.2	788.2	786.3
25°	745.5	748.9	760.1	770.8	762.5
27.5°	721.3	724.7	738.3	746.0	745.1
30°	695.1	698.5	715.5	726.1	721.3
32.5°	667.9	673.8	692.2	701.4	692.2
35°	641.3	644.2	662.1	669.4	665.0
37.5°	605.8	617.0	635.0	639.8	632.0
40°	579.2	579.7	605.4	605.4	604.9
42.5°	544.7	552.5	569.5	578.7	573.8
45°	515.1	517.6	539.4	546.2	544.7
47.5°	482.6	492.3	508.4	516.1	512.2
50°	450.6	457.4	473.9	484.1	480.2
52.5°	421.0	426.4	443.4	449.2	445.3
55°	385.1	393.9	407.9	413.8	410.4
57.5°	354.1	360.4	377.9	379.8	377.9
60°	321.6	328.9	342.9	344.4	340.5
62.5°	290.6	295.4	308.0	308.5	304.1
65°	257.6	263.4	272.1	271.2	266.8
67.5°	225.1	229.0	237.2	233.8	229.0
70°	192.1	195.5	202.3	197.4	193.1
72.5°	160.1	162.5	168.3	161.0	155.7
75°	128.5	129.5	133.9	124.7	116.9
77.5°	97.5	98.5	100.9	91.7	82.9
80°	69.4	69.4	70.3	60.6	54.8
82.5°	43.7	43.7	43.2	35.9	32.5
85°	22.8	22.3	21.8	17.5	16.0
87.5°	8.2	8.2	6.8	6.3	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)