

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: P485894

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2LO-30-120-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: P485894
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-30-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

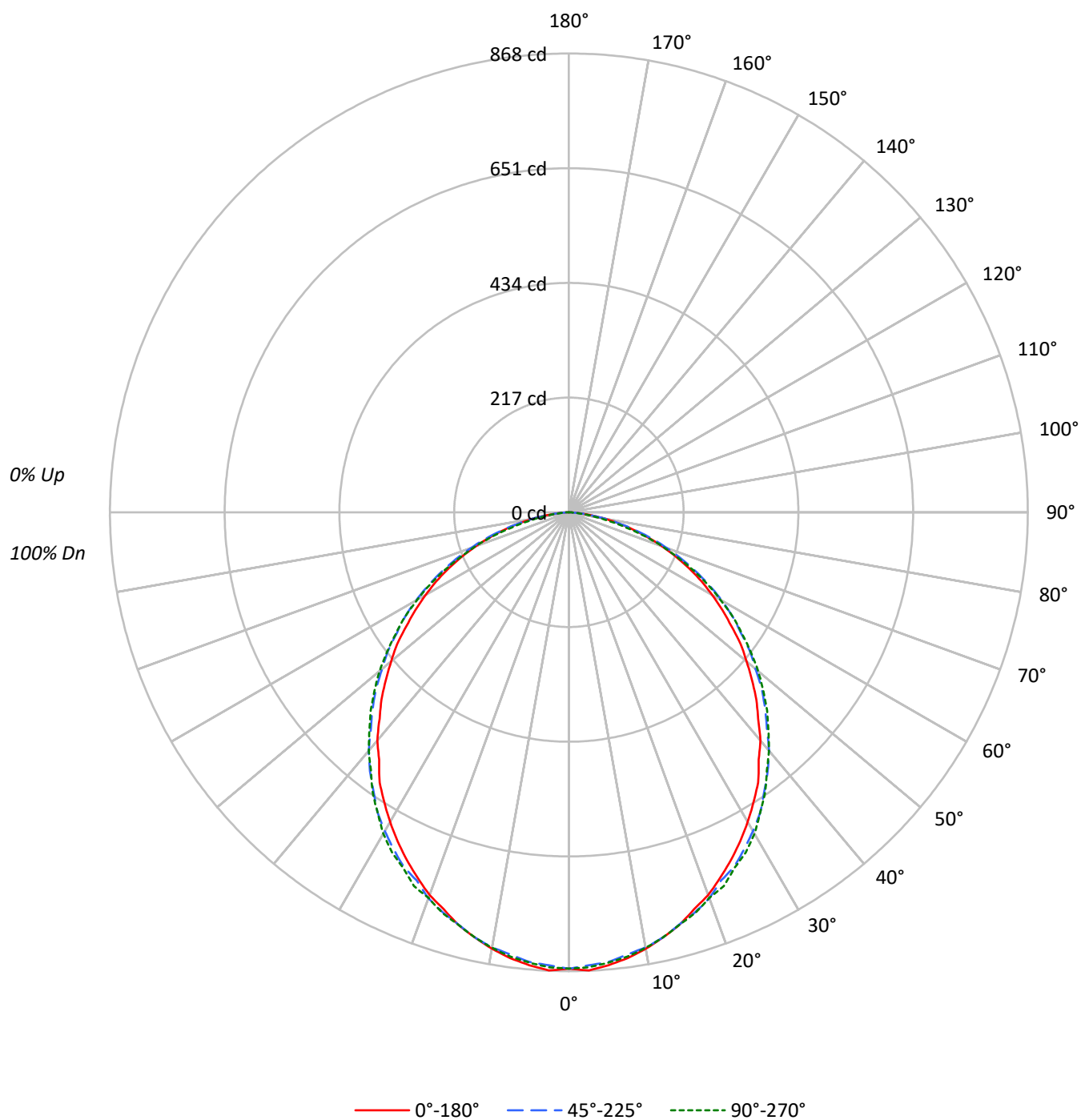
Lumens per Lamp: N/A
Luminaire Lumens: 2217.3 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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			
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°	2323	2323	2323
5°	2323	2306	2310
10°	2290	2283	2285
15°	2251	2249	2250
20°	2206	2225	2223
25°	2154	2196	2203
30°	2101	2163	2181
35°	2050	2116	2126
40°	1979	2069	2068
45°	1907	1997	2017
50°	1836	1930	1956
55°	1758	1862	1873
60°	1684	1796	1783
65°	1596	1686	1653
70°	1471	1548	1478
75°	1301	1355	1182
80°	1046	1060	826
85°	685	655	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	3.7
10°-20°	228.2	10.3
20°-30°	339.7	15.3
30°-40°	399.8	18.0
40°-50°	400.9	18.1
50°-60°	351.5	15.9
60°-70°	257.0	11.6
70°-80°	132.5	6.0
80°-90°	26.6	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°	649.0	29.3
0°-40°	1048.8	47.3
0°-60°	1801.2	81.2
0°-90°	2217.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2217.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	860	854	854	860	855	81
15°	808	809	807	812	808	227
25°	725	729	740	750	742	334
35°	624	627	644	651	647	389
45°	501	504	525	531	530	386
55°	375	383	397	403	399	336
65°	251	256	265	264	260	248
75°	125	126	130	121	114	133
85°	22	22	21	17	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.2	863.2	863.2	863.2	863.2
2.5°	867.5	863.2	857.6	862.3	861.4
5°	859.9	854.3	853.8	859.5	855.2
7.5°	850.5	849.6	843.9	850.0	847.7
10°	838.2	837.3	835.4	839.6	836.3
12.5°	823.6	822.7	823.6	826.0	823.6
15°	808.0	809.4	807.1	812.3	807.6
17.5°	787.3	788.7	793.4	795.3	794.8
20°	770.3	771.2	776.9	784.4	776.4
22.5°	748.1	750.4	753.3	767.0	765.1
25°	725.4	728.7	739.6	750.0	741.9
27.5°	701.8	705.1	718.3	725.9	725.0
30°	676.3	679.6	696.2	706.5	701.8
32.5°	649.9	655.6	673.5	682.5	673.5
35°	624.0	626.8	644.2	651.3	647.1
37.5°	589.5	600.4	617.8	622.5	615.0
40°	563.5	564.0	589.0	589.0	588.6
42.5°	530.0	537.6	554.1	563.1	558.3
45°	501.2	503.6	524.8	531.4	530.0
47.5°	469.6	479.1	494.6	502.2	498.4
50°	438.5	445.1	461.1	471.0	467.3
52.5°	409.7	414.9	431.4	437.1	433.3
55°	374.7	383.2	396.9	402.6	399.3
57.5°	344.5	350.7	367.7	369.6	367.7
60°	312.9	320.0	333.7	335.1	331.3
62.5°	282.7	287.4	299.7	300.2	295.9
65°	250.6	256.3	264.8	263.8	259.6
67.5°	219.0	222.8	230.8	227.5	222.8
70°	186.9	190.2	196.8	192.1	187.8
72.5°	155.8	158.1	163.8	156.7	151.5
75°	125.1	126.0	130.3	121.3	113.7
77.5°	94.9	95.8	98.2	89.2	80.7
80°	67.5	67.5	68.4	59.0	53.3
82.5°	42.5	42.5	42.0	34.9	31.6
85°	22.2	21.7	21.2	17.0	15.6
87.5°	8.0	8.0	6.6	6.1	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)