

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: P485900

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2LO-50-120-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: P485900
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-50-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

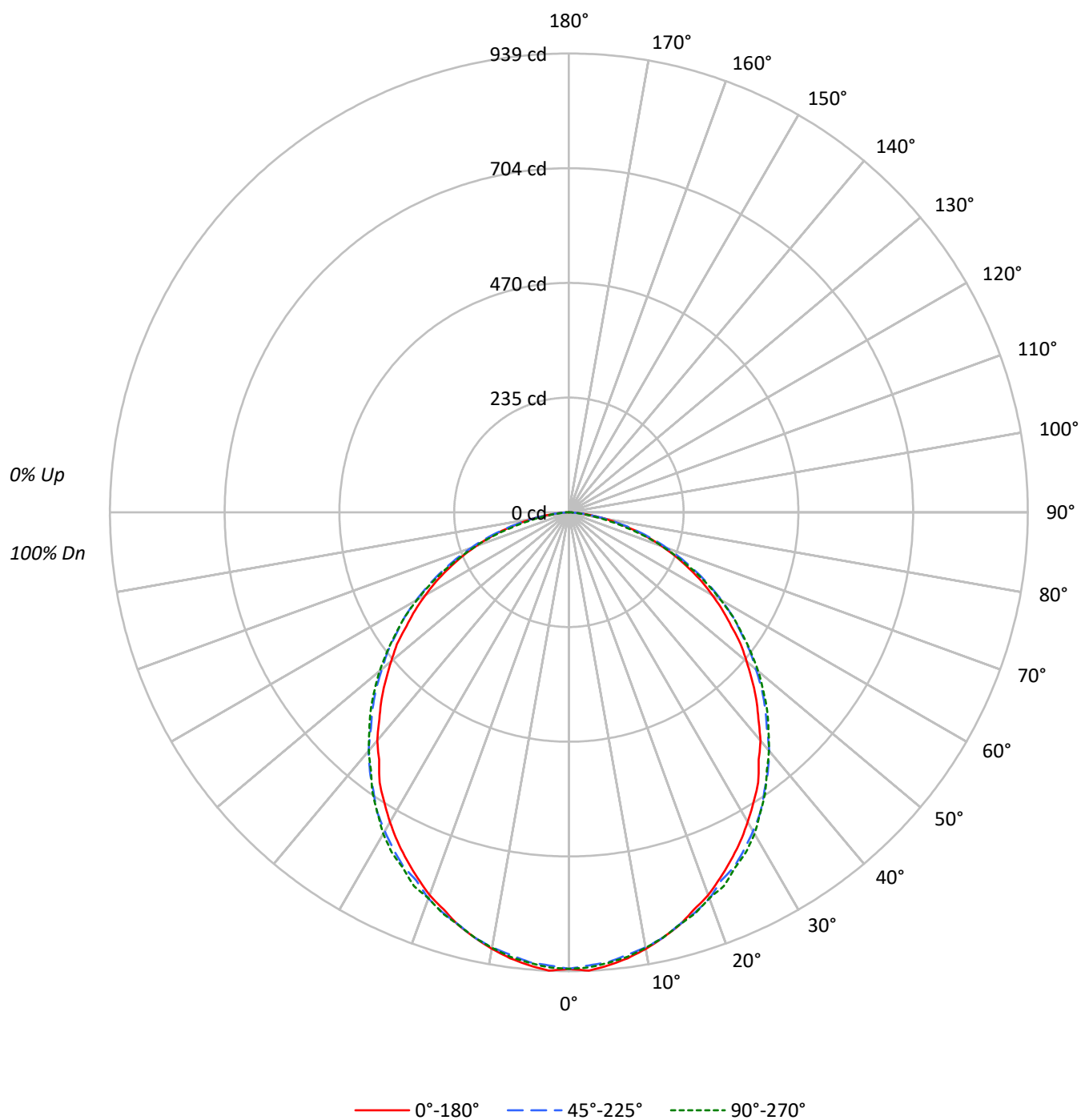
Lumens per Lamp: N/A
Luminaire Lumens: 2399.6 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2514	2514	2514
5°	2514	2496	2500
10°	2479	2470	2473
15°	2436	2433	2435
20°	2387	2407	2406
25°	2331	2377	2384
30°	2274	2341	2360
35°	2218	2290	2301
40°	2142	2239	2237
45°	2064	2162	2183
50°	1986	2089	2117
55°	1903	2016	2027
60°	1822	1943	1930
65°	1727	1824	1789
70°	1592	1676	1600
75°	1408	1466	1280
80°	1131	1148	894
85°	741	710	522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.7
10°-20°	246.9	10.3
20°-30°	367.6	15.3
30°-40°	432.7	18.0
40°-50°	433.8	18.1
50°-60°	380.4	15.9
60°-70°	278.2	11.6
70°-80°	143.4	6.0
80°-90°	28.8	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°	702.3	29.3
0°-40°	1135.0	47.3
0°-60°	1949.3	81.2
0°-90°	2399.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2399.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	931	924	924	930	926	88
15°	874	876	873	879	874	246
25°	785	789	800	812	803	362
35°	675	678	697	705	700	421
45°	542	545	568	575	574	418
55°	406	415	430	436	432	364
65°	271	277	286	286	281	268
75°	135	136	141	131	123	143
85°	24	24	23	18	17	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	934.2	934.2	934.2	934.2	934.2
2.5°	938.8	934.2	928.1	933.2	932.2
5°	930.6	924.5	924.0	930.1	925.5
7.5°	920.4	919.4	913.3	919.9	917.4
10°	907.1	906.1	904.1	908.7	905.1
12.5°	891.3	890.3	891.3	893.9	891.3
15°	874.5	876.0	873.4	879.1	873.9
17.5°	852.0	853.5	858.6	860.7	860.2
20°	833.6	834.6	840.7	848.9	840.2
22.5°	809.6	812.1	815.2	830.0	828.0
25°	785.1	788.6	800.4	811.6	802.9
27.5°	759.5	763.1	777.4	785.6	784.6
30°	731.9	735.5	753.4	764.6	759.5
32.5°	703.3	709.5	728.9	738.6	728.9
35°	675.3	678.3	697.2	704.9	700.3
37.5°	638.0	649.7	668.6	673.7	665.5
40°	609.9	610.4	637.5	637.5	636.9
42.5°	573.6	581.8	599.7	609.4	604.3
45°	542.4	545.0	568.0	575.1	573.6
47.5°	508.2	518.4	535.3	543.5	539.4
50°	474.5	481.7	499.0	509.8	505.7
52.5°	443.4	449.0	466.9	473.0	468.9
55°	405.6	414.8	429.6	435.7	432.1
57.5°	372.9	379.5	397.9	399.9	397.9
60°	338.6	346.3	361.1	362.7	358.6
62.5°	306.0	311.1	324.3	324.9	320.3
65°	271.2	277.4	286.5	285.5	280.9
67.5°	237.0	241.1	249.8	246.2	241.1
70°	202.3	205.8	213.0	207.9	203.3
72.5°	168.6	171.1	177.2	169.6	164.0
75°	135.4	136.4	141.0	131.3	123.1
77.5°	102.7	103.7	106.2	96.5	87.3
80°	73.0	73.0	74.1	63.8	57.7
82.5°	46.0	46.0	45.5	37.8	34.2
85°	24.0	23.5	23.0	18.4	16.9
87.5°	8.7	8.7	7.2	6.6	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)