

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: P485851

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1HI-40-120-EDD**

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: P485851
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-40-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

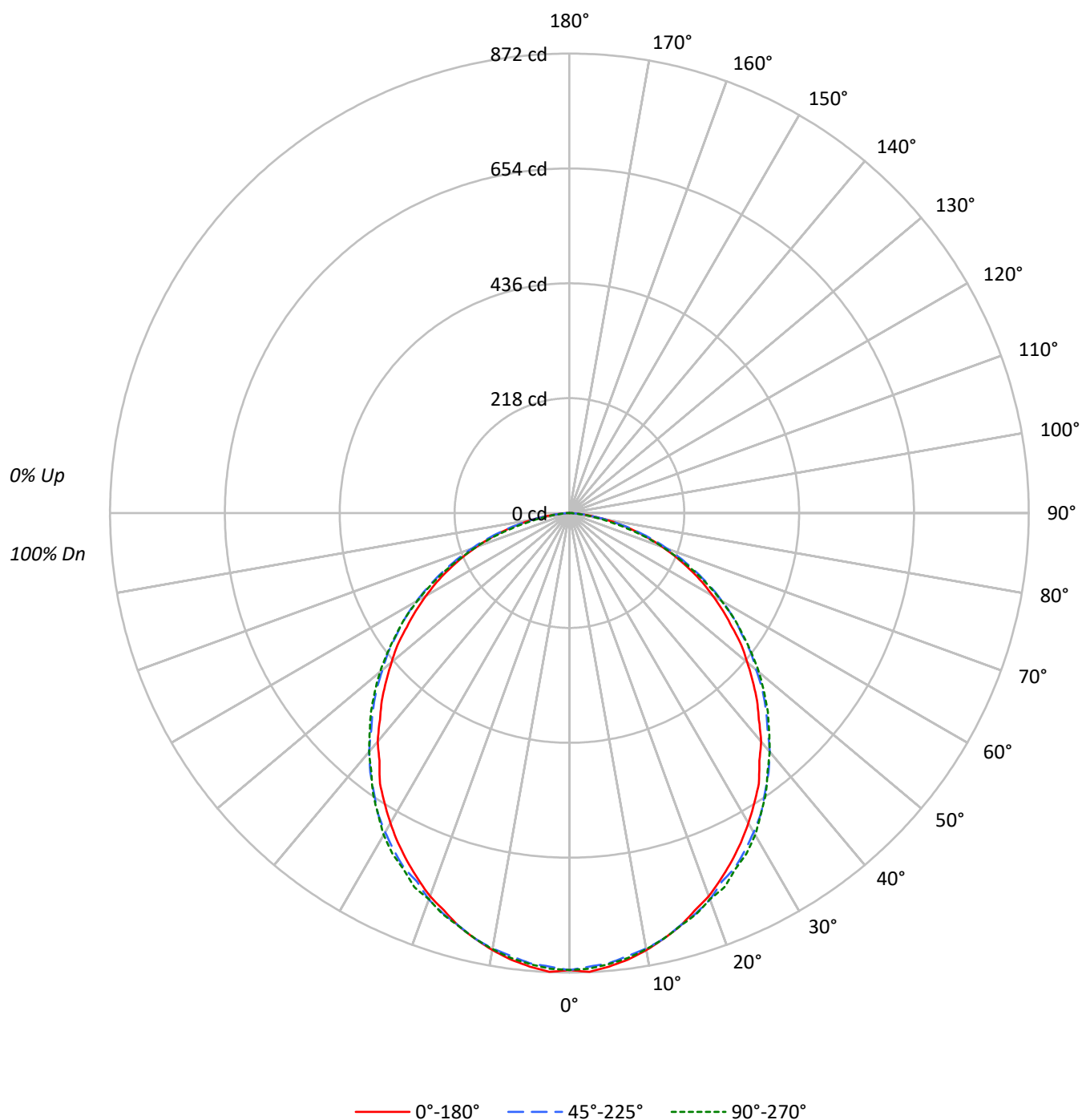
Lumens per Lamp: N/A
Luminaire Lumens: 2227.5 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P485851

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-1HI-40-120-EDD

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°	2334	2334	2334
5°	2334	2317	2321
10°	2301	2293	2296
15°	2261	2259	2260
20°	2216	2235	2234
25°	2164	2206	2213
30°	2111	2173	2191
35°	2059	2126	2136
40°	1989	2079	2077
45°	1916	2007	2026
50°	1844	1939	1965
55°	1766	1871	1882
60°	1692	1804	1792
65°	1603	1694	1661
70°	1478	1555	1485
75°	1306	1361	1188
80°	1051	1066	831
85°	689	658	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	3.7
10°-20°	229.2	10.3
20°-30°	341.2	15.3
30°-40°	401.7	18.0
40°-50°	402.7	18.1
50°-60°	353.2	15.9
60°-70°	258.2	11.6
70°-80°	133.1	6.0
80°-90°	26.7	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°	652.0	29.3
0°-40°	1053.6	47.3
0°-60°	1809.5	81.2
0°-90°	2227.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2227.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	864	858	858	863	859	82
15°	812	813	811	816	811	228
25°	729	732	743	753	745	336
35°	627	630	647	654	650	390
45°	504	506	527	534	532	388
55°	376	385	399	404	401	338
65°	252	258	266	265	261	249
75°	126	127	131	122	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°	867.2	867.2	867.2	867.2	867.2
2.5°	871.5	867.2	861.5	866.3	865.3
5°	863.9	858.2	857.7	863.4	859.2
7.5°	854.4	853.5	847.8	853.9	851.6
10°	842.1	841.1	839.2	843.5	840.2
12.5°	827.4	826.4	827.4	829.8	827.4
15°	811.7	813.2	810.8	816.0	811.3
17.5°	790.9	792.3	797.0	798.9	798.5
20°	773.8	774.8	780.4	788.0	780.0
22.5°	751.5	753.9	756.7	770.5	768.6
25°	728.8	732.1	743.0	753.4	745.4
27.5°	705.1	708.4	721.7	729.2	728.3
30°	679.5	682.8	699.4	709.8	705.1
32.5°	652.9	658.6	676.6	685.6	676.6
35°	626.8	629.7	647.2	654.3	650.1
37.5°	592.2	603.1	620.7	625.4	617.8
40°	566.1	566.6	591.7	591.7	591.3
42.5°	532.5	540.1	556.6	565.7	560.9
45°	503.5	505.9	527.3	533.9	532.5
47.5°	471.8	481.3	496.9	504.5	500.7
50°	440.5	447.1	463.2	473.2	469.4
52.5°	411.6	416.8	433.4	439.1	435.3
55°	376.5	385.0	398.8	404.4	401.1
57.5°	346.1	352.3	369.4	371.3	369.4
60°	314.4	321.5	335.2	336.6	332.9
62.5°	284.0	288.8	301.1	301.6	297.3
65°	251.8	257.5	266.0	265.0	260.8
67.5°	220.0	223.8	231.9	228.5	223.8
70°	187.8	191.1	197.7	193.0	188.7
72.5°	156.5	158.8	164.5	157.4	152.2
75°	125.6	126.6	130.9	121.9	114.3
77.5°	95.3	96.3	98.6	89.6	81.1
80°	67.8	67.8	68.8	59.3	53.6
82.5°	42.7	42.7	42.2	35.1	31.8
85°	22.3	21.8	21.3	17.1	15.6
87.5°	8.1	8.1	6.6	6.2	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)