

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: P485888

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2HI-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: P485888
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-LD4-2HI-50-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

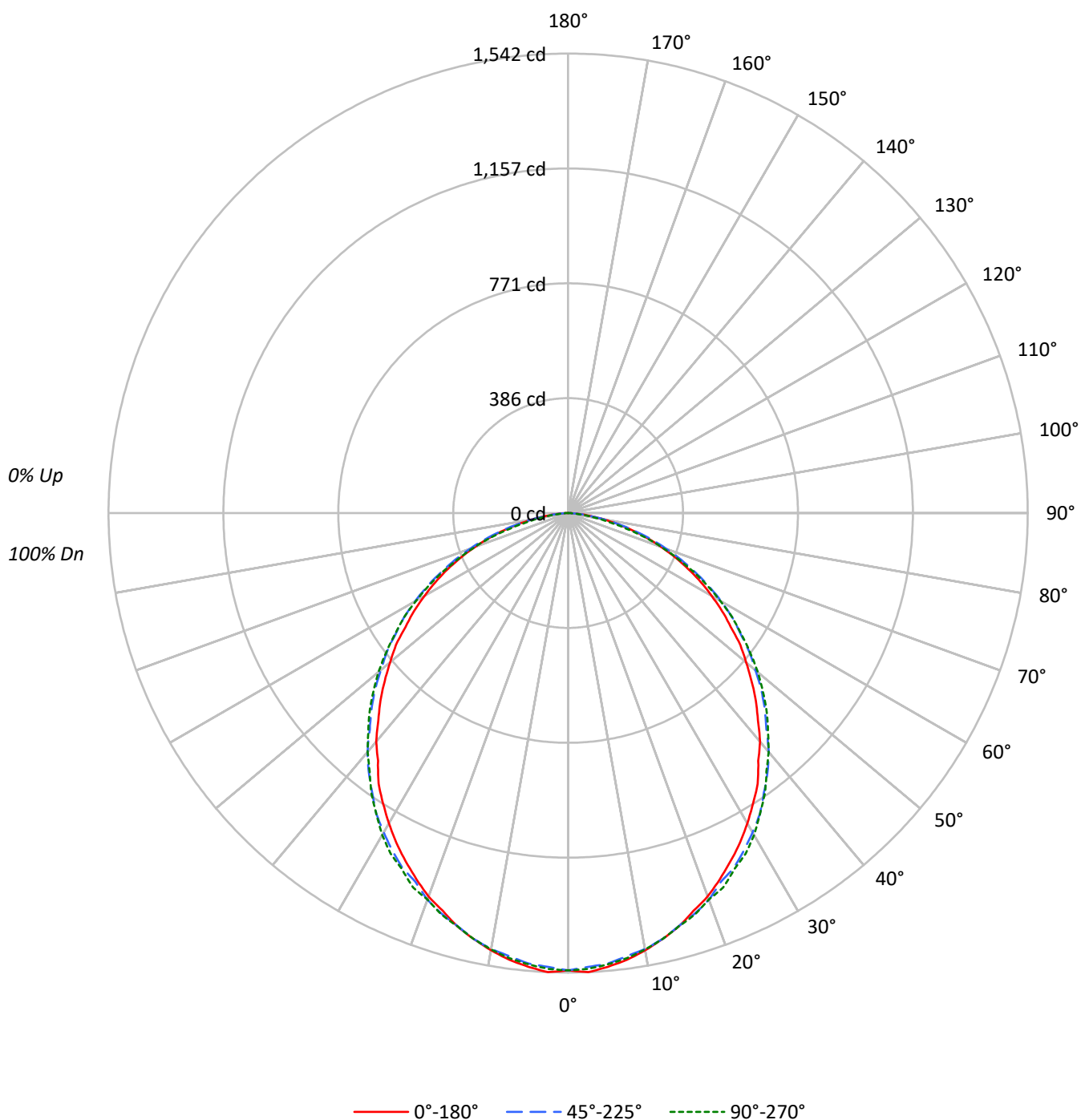
Lumens per Lamp: N/A
Luminaire Lumens: 3941.6 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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°	4130	4130	4130
5°	4129	4100	4107
10°	4072	4058	4062
15°	4002	3997	3999
20°	3921	3955	3952
25°	3829	3904	3916
30°	3736	3845	3877
35°	3644	3762	3779
40°	3519	3678	3675
45°	3391	3551	3586
50°	3263	3432	3477
55°	3126	3310	3330
60°	2994	3193	3170
65°	2837	2997	2939
70°	2614	2753	2627
75°	2311	2408	2102
80°	1860	1886	1469
85°	1216	1167	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	3.7
10°-20°	405.6	10.3
20°-30°	603.8	15.3
30°-40°	710.7	18.0
40°-50°	712.6	18.1
50°-60°	624.9	15.9
60°-70°	457.0	11.6
70°-80°	235.5	6.0
80°-90°	47.3	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°	1153.6	29.3
0°-40°	1864.4	47.3
0°-60°	3201.9	81.2
0°-90°	3941.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3941.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1529	1519	1518	1528	1520	145
15°	1436	1439	1435	1444	1436	404
25°	1290	1295	1315	1333	1319	594
35°	1109	1114	1145	1158	1150	691
45°	891	895	933	945	942	687
55°	666	681	706	716	710	598
65°	446	456	471	469	462	441
75°	222	224	232	216	202	236
85°	39	39	38	30	28	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1534.6	1534.6	1534.6	1534.6	1534.6
2.5°	1542.1	1534.6	1524.5	1532.9	1531.2
5°	1528.7	1518.6	1517.8	1527.8	1520.3
7.5°	1511.9	1510.2	1500.2	1511.1	1506.9
10°	1490.1	1488.4	1485.1	1492.6	1486.7
12.5°	1464.1	1462.4	1464.1	1468.3	1464.1
15°	1436.4	1438.9	1434.7	1443.9	1435.5
17.5°	1399.5	1402.0	1410.4	1413.7	1412.9
20°	1369.3	1370.9	1381.0	1394.4	1380.2
22.5°	1329.8	1334.0	1339.1	1363.4	1360.0
25°	1289.6	1295.4	1314.7	1333.2	1318.9
27.5°	1247.6	1253.5	1277.0	1290.4	1288.7
30°	1202.3	1208.2	1237.5	1256.0	1247.6
32.5°	1155.3	1165.4	1197.3	1213.2	1197.3
35°	1109.2	1114.2	1145.3	1157.8	1150.3
37.5°	1047.9	1067.2	1098.3	1106.7	1093.2
40°	1001.8	1002.6	1047.1	1047.1	1046.2
42.5°	942.2	955.6	985.0	1000.9	992.6
45°	891.0	895.2	933.0	944.7	942.2
47.5°	834.8	851.6	879.3	892.7	886.0
50°	779.4	791.2	819.7	837.3	830.6
52.5°	728.3	737.5	766.9	776.9	770.2
55°	666.2	681.3	705.6	715.7	709.8
57.5°	612.5	623.4	653.6	656.9	653.6
60°	556.3	568.9	593.2	595.7	589.0
62.5°	502.6	511.0	532.8	533.6	526.1
65°	445.5	455.6	470.7	469.0	461.5
67.5°	389.3	396.0	410.3	404.4	396.0
70°	332.2	338.1	349.9	341.5	333.9
72.5°	276.9	281.1	291.1	278.6	269.3
75°	222.3	224.0	231.6	215.6	202.2
77.5°	168.6	170.3	174.5	158.6	143.5
80°	120.0	120.0	121.7	104.9	94.8
82.5°	75.5	75.5	74.7	62.1	56.2
85°	39.4	38.6	37.8	30.2	27.7
87.5°	14.3	14.3	11.7	10.9	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)