

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: P485914

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3HI-20-120-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: P485914
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-LD4-3HI-20-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

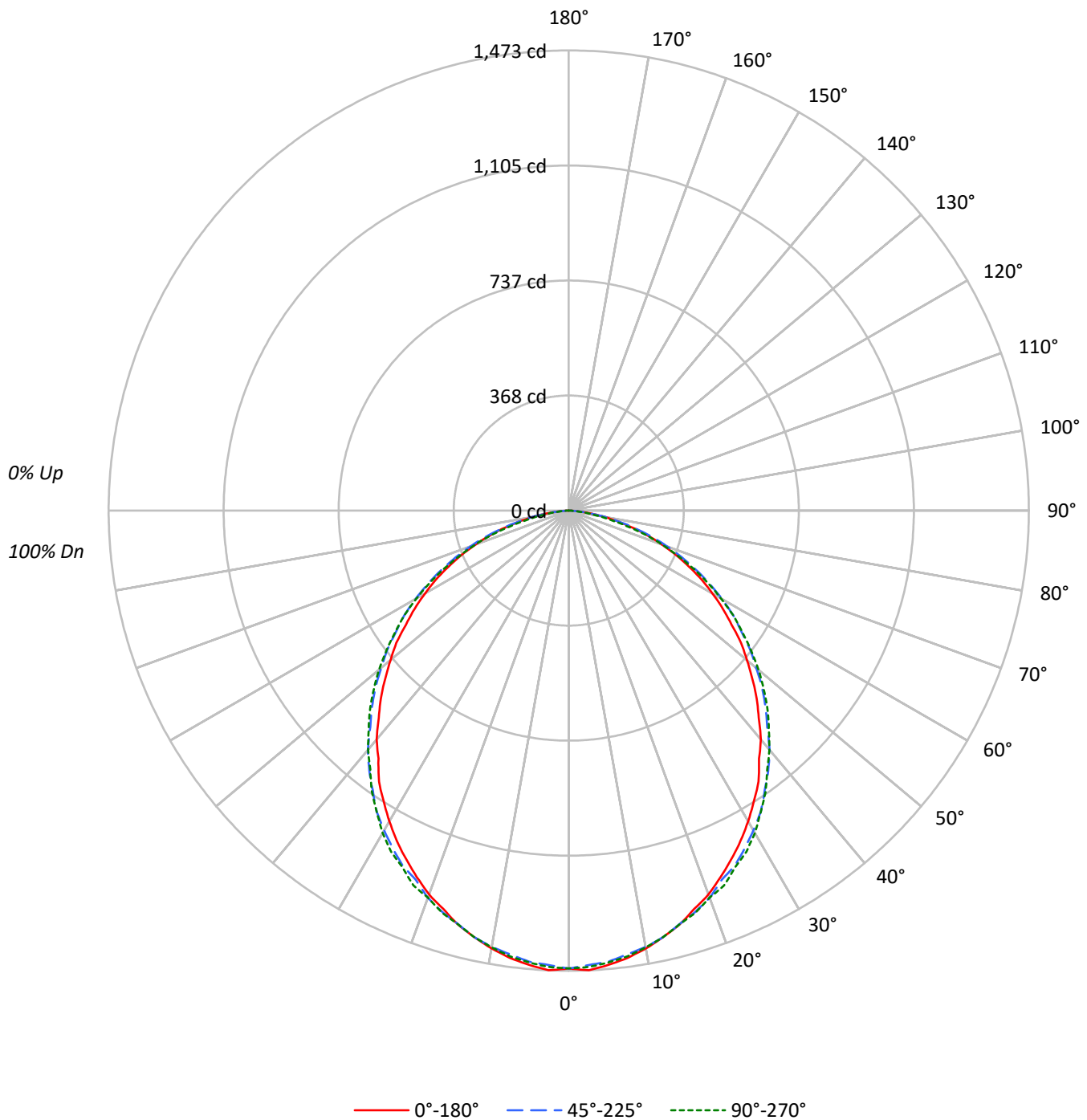
Lumens per Lamp: N/A
Luminaire Lumens: 3764.6 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3944	3944	3944
5°	3944	3916	3922
10°	3889	3876	3880
15°	3822	3818	3820
20°	3745	3777	3775
25°	3657	3728	3740
30°	3568	3673	3703
35°	3480	3593	3609
40°	3361	3513	3510
45°	3239	3391	3425
50°	3116	3278	3321
55°	2985	3162	3180
60°	2859	3049	3027
65°	2709	2862	2806
70°	2496	2629	2509
75°	2208	2300	2008
80°	1776	1801	1404
85°	1164	1115	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	3.7
10°-20°	387.4	10.3
20°-30°	576.7	15.3
30°-40°	678.8	18.0
40°-50°	680.6	18.1
50°-60°	596.8	15.9
60°-70°	436.4	11.6
70°-80°	224.9	6.0
80°-90°	45.1	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°	1101.8	29.3
0°-40°	1780.7	47.3
0°-60°	3058.1	81.2
0°-90°	3764.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3764.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1466	1466	1466	1466	1466	
5°	1460	1450	1450	1459	1452	138
15°	1372	1374	1370	1379	1371	386
25°	1232	1237	1256	1273	1260	567
35°	1059	1064	1094	1106	1099	660
45°	851	855	891	902	900	656
55°	636	651	674	684	678	571
65°	426	435	450	448	441	421
75°	212	214	221	206	193	225
85°	38	37	36	29	26	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1465.6	1465.6	1465.6	1465.6	1465.6
2.5°	1472.9	1465.6	1456.0	1464.0	1462.4
5°	1460.0	1450.4	1449.6	1459.2	1452.0
7.5°	1444.0	1442.4	1432.8	1443.2	1439.2
10°	1423.2	1421.6	1418.4	1425.6	1420.0
12.5°	1398.3	1396.7	1398.3	1402.3	1398.3
15°	1371.9	1374.3	1370.3	1379.1	1371.1
17.5°	1336.6	1339.0	1347.0	1350.3	1349.4
20°	1307.8	1309.4	1319.0	1331.8	1318.2
22.5°	1270.1	1274.1	1278.9	1302.2	1299.0
25°	1231.7	1237.3	1255.7	1273.3	1259.7
27.5°	1191.6	1197.2	1219.6	1232.5	1230.9
30°	1148.3	1153.9	1182.0	1199.6	1191.6
32.5°	1103.4	1113.1	1143.5	1158.7	1143.5
35°	1059.4	1064.2	1093.8	1105.8	1098.6
37.5°	1000.9	1019.3	1048.9	1057.0	1044.1
40°	956.8	957.6	1000.1	1000.1	999.3
42.5°	899.9	912.7	940.8	956.0	948.0
45°	851.0	855.0	891.1	902.3	899.9
47.5°	797.3	813.4	839.8	852.6	846.2
50°	744.4	755.7	782.9	799.7	793.3
52.5°	695.6	704.4	732.4	742.0	735.6
55°	636.3	650.7	673.9	683.5	677.9
57.5°	585.0	595.4	624.2	627.4	624.2
60°	531.3	543.3	566.5	568.9	562.5
62.5°	480.0	488.0	508.8	509.6	502.4
65°	425.5	435.1	449.5	447.9	440.7
67.5°	371.8	378.2	391.9	386.2	378.2
70°	317.3	322.9	334.2	326.1	318.9
72.5°	264.4	268.4	278.1	266.0	257.2
75°	212.4	214.0	221.2	205.9	193.1
77.5°	161.1	162.7	166.7	151.5	137.0
80°	114.6	114.6	116.2	100.2	90.6
82.5°	72.1	72.1	71.3	59.3	53.7
85°	37.7	36.9	36.1	28.8	26.4
87.5°	13.6	13.6	11.2	10.4	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)