

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: P485872

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1STD-35-120-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: P485872
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-LD4-1STD-35-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

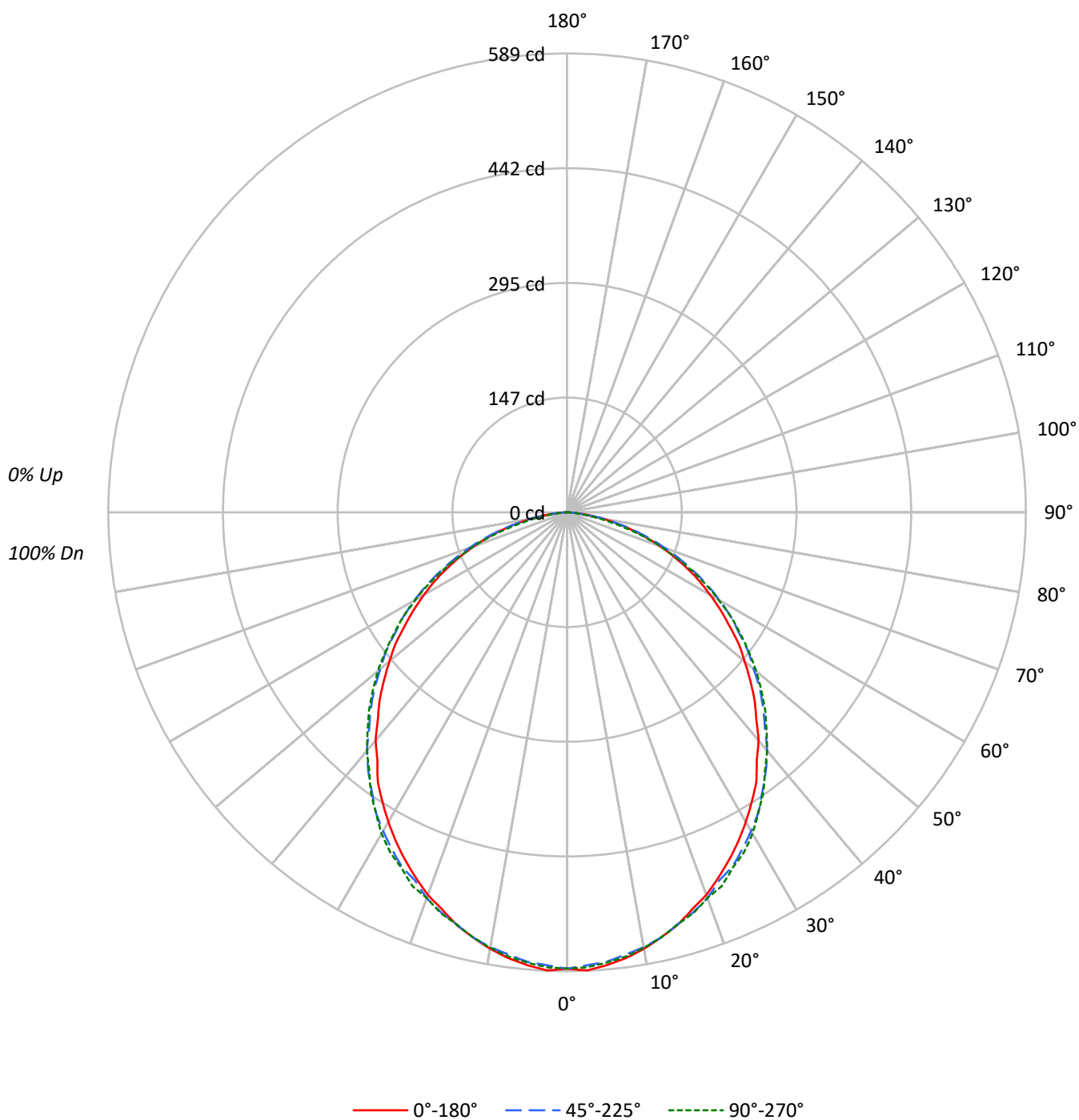
Lumens per Lamp: N/A
Luminaire Lumens: 1504.5 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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					0
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°	1576	1576	1576
5°	1576	1565	1568
10°	1554	1549	1551
15°	1528	1526	1526
20°	1497	1509	1509
25°	1461	1490	1495
30°	1426	1468	1480
35°	1391	1436	1442
40°	1343	1404	1403
45°	1294	1355	1369
50°	1245	1310	1327
55°	1193	1263	1271
60°	1143	1218	1210
65°	1083	1144	1121
70°	998	1050	1003
75°	883	919	803
80°	710	719	561
85°	466	445	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	3.7
10°-20°	154.8	10.3
20°-30°	230.5	15.3
30°-40°	271.3	18.0
40°-50°	272.0	18.1
50°-60°	238.5	15.9
60°-70°	174.4	11.6
70°-80°	89.9	6.0
80°-90°	18.0	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°	440.3	29.3
0°-40°	711.6	47.3
0°-60°	1222.2	81.2
0°-90°	1504.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1504.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	584	580	579	583	580	55
15°	548	549	548	551	548	154
25°	492	494	502	509	503	227
35°	423	425	437	442	439	264
45°	340	342	356	361	360	262
55°	254	260	269	273	271	228
65°	170	174	180	179	176	168
75°	85	86	88	82	77	90
85°	15	15	14	12	11	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	585.7	585.7	585.7	585.7	585.7
2.5°	588.6	585.7	581.9	585.1	584.5
5°	583.5	579.7	579.3	583.2	580.3
7.5°	577.1	576.4	572.6	576.8	575.2
10°	568.8	568.1	566.8	569.7	567.5
12.5°	558.8	558.2	558.8	560.4	558.8
15°	548.3	549.2	547.6	551.1	547.9
17.5°	534.2	535.1	538.3	539.6	539.3
20°	522.6	523.3	527.1	532.3	526.8
22.5°	507.6	509.2	511.1	520.4	519.1
25°	492.2	494.5	501.8	508.9	503.4
27.5°	476.2	478.5	487.4	492.5	491.9
30°	458.9	461.2	472.4	479.4	476.2
32.5°	441.0	444.8	457.0	463.1	457.0
35°	423.4	425.3	437.1	441.9	439.1
37.5°	400.0	407.4	419.2	422.4	417.3
40°	382.4	382.7	399.7	399.7	399.4
42.5°	359.6	364.8	376.0	382.1	378.9
45°	340.1	341.7	356.1	360.6	359.6
47.5°	318.6	325.1	335.6	340.7	338.2
50°	297.5	302.0	312.9	319.6	317.0
52.5°	278.0	281.5	292.7	296.6	294.0
55°	254.3	260.0	269.3	273.2	270.9
57.5°	233.8	237.9	249.5	250.8	249.5
60°	212.3	217.1	226.4	227.4	224.8
62.5°	191.8	195.0	203.4	203.7	200.8
65°	170.1	173.9	179.7	179.0	176.1
67.5°	148.6	151.2	156.6	154.4	151.2
70°	126.8	129.1	133.5	130.3	127.5
72.5°	105.7	107.3	111.1	106.3	102.8
75°	84.9	85.5	88.4	82.3	77.2
77.5°	64.4	65.0	66.6	60.5	54.8
80°	45.8	45.8	46.4	40.0	36.2
82.5°	28.8	28.8	28.5	23.7	21.5
85°	15.1	14.7	14.4	11.5	10.6
87.5°	5.4	5.4	4.5	4.2	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)