

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: P485878

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2HI-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: P485878
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-20-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

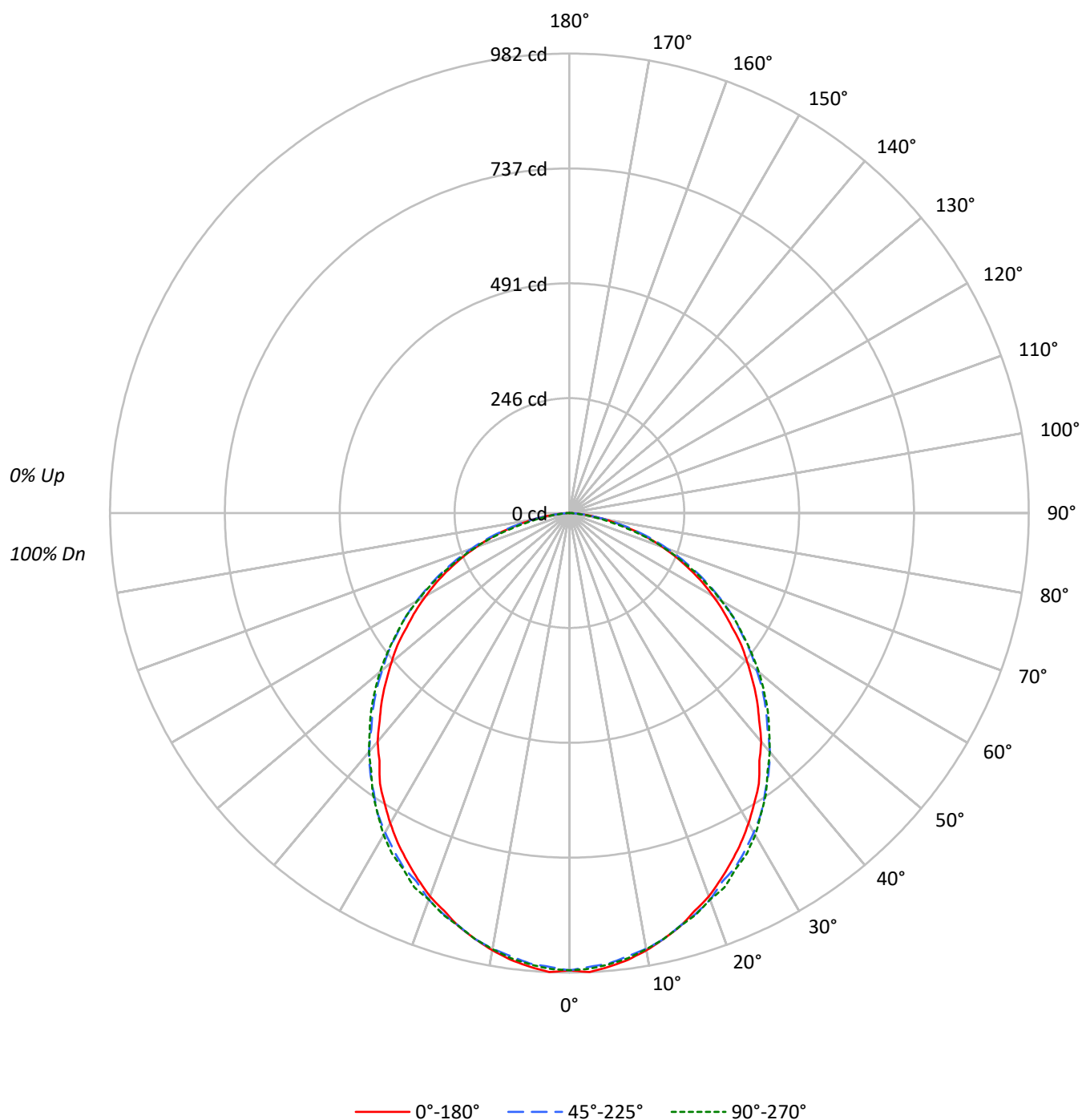
Lumens per Lamp: N/A
Luminaire Lumens: 2509.7 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	2629	2629	2629
5°	2629	2610	2615
10°	2593	2584	2587
15°	2548	2545	2546
20°	2497	2518	2517
25°	2438	2485	2494
30°	2379	2449	2468
35°	2320	2395	2406
40°	2241	2342	2340
45°	2159	2261	2283
50°	2078	2185	2214
55°	1990	2108	2120
60°	1906	2033	2018
65°	1806	1908	1871
70°	1664	1753	1673
75°	1472	1533	1338
80°	1184	1201	936
85°	775	741	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	3.7
10°-20°	258.2	10.3
20°-30°	384.5	15.3
30°-40°	452.5	18.0
40°-50°	453.7	18.1
50°-60°	397.9	15.9
60°-70°	291.0	11.6
70°-80°	149.9	6.0
80°-90°	30.1	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°	734.6	29.3
0°-40°	1187.1	47.3
0°-60°	2038.7	81.2
0°-90°	2509.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	973	967	966	973	968	92
15°	915	916	914	919	914	257
25°	821	825	837	849	840	378
35°	706	709	729	737	732	440
45°	567	570	594	602	600	437
55°	424	434	449	456	452	381
65°	284	290	300	299	294	281
75°	142	143	147	137	129	150
85°	25	25	24	19	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	977.1	977.1	977.1	977.1	977.1
2.5°	981.9	977.1	970.7	976.0	974.9
5°	973.3	966.9	966.4	972.8	968.0
7.5°	962.7	961.6	955.2	962.1	959.5
10°	948.8	947.7	945.6	950.4	946.6
12.5°	932.2	931.1	932.2	934.9	932.2
15°	914.6	916.2	913.5	919.4	914.0
17.5°	891.1	892.7	898.0	900.2	899.6
20°	871.8	872.9	879.3	887.9	878.8
22.5°	846.7	849.4	852.6	868.1	866.0
25°	821.1	824.8	837.1	848.9	839.8
27.5°	794.4	798.1	813.1	821.6	820.6
30°	765.5	769.3	788.0	799.7	794.4
32.5°	735.6	742.0	762.3	772.5	762.3
35°	706.2	709.4	729.2	737.2	732.4
37.5°	667.2	679.5	699.3	704.6	696.1
40°	637.9	638.4	666.7	666.7	666.2
42.5°	599.9	608.5	627.2	637.3	632.0
45°	567.3	570.0	594.0	601.5	599.9
47.5°	531.5	542.2	559.9	568.4	564.1
50°	496.3	503.8	521.9	533.1	528.9
52.5°	463.7	469.6	488.3	494.7	490.4
55°	424.2	433.8	449.3	455.7	451.9
57.5°	390.0	396.9	416.2	418.3	416.2
60°	354.2	362.2	377.7	379.3	375.0
62.5°	320.0	325.3	339.2	339.8	335.0
65°	283.7	290.1	299.7	298.6	293.8
67.5°	247.9	252.2	261.2	257.5	252.2
70°	211.5	215.3	222.8	217.4	212.6
72.5°	176.3	179.0	185.4	177.4	171.5
75°	141.6	142.6	147.4	137.3	128.7
77.5°	107.4	108.4	111.1	101.0	91.4
80°	76.4	76.4	77.5	66.8	60.4
82.5°	48.1	48.1	47.5	39.5	35.8
85°	25.1	24.6	24.0	19.2	17.6
87.5°	9.1	9.1	7.5	6.9	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)