

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: P485903

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2STD-20-120-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: P485903
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-LD4-2STD-20-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

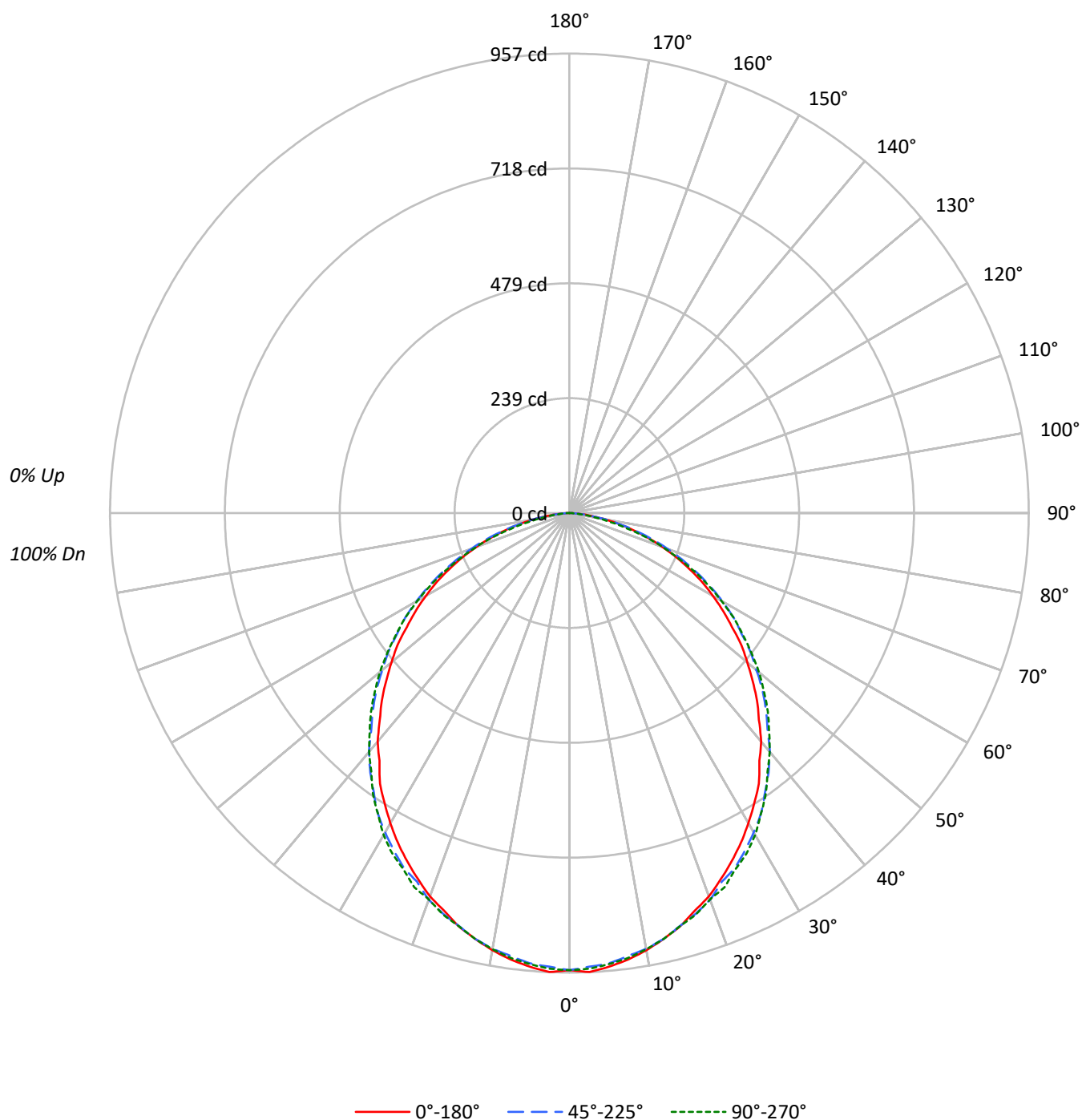
Lumens per Lamp: N/A
Luminaire Lumens: 2445.3 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	2562	2562	2562
5°	2562	2544	2548
10°	2526	2517	2520
15°	2483	2480	2481
20°	2433	2454	2452
25°	2375	2422	2429
30°	2318	2386	2405
35°	2260	2334	2344
40°	2183	2282	2280
45°	2104	2203	2224
50°	2025	2129	2157
55°	1939	2054	2066
60°	1857	1981	1967
65°	1760	1859	1823
70°	1622	1708	1630
75°	1434	1494	1304
80°	1153	1170	911
85°	756	722	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	3.7
10°-20°	251.6	10.3
20°-30°	374.6	15.3
30°-40°	440.9	18.0
40°-50°	442.1	18.1
50°-60°	387.7	15.9
60°-70°	283.5	11.6
70°-80°	146.1	6.0
80°-90°	29.3	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°	715.7	29.3
0°-40°	1156.6	47.3
0°-60°	1986.4	81.2
0°-90°	2445.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2445.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	948	942	942	948	943	90
15°	891	893	890	896	891	251
25°	800	804	816	827	818	369
35°	688	691	710	718	714	429
45°	553	555	579	586	584	426
55°	413	423	438	444	440	371
65°	276	283	292	291	286	273
75°	138	139	144	134	125	146
85°	24	24	23	19	17	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.0	952.0	952.0	952.0	952.0
2.5°	956.7	952.0	945.8	951.0	949.9
5°	948.4	942.1	941.6	947.8	943.2
7.5°	938.0	936.9	930.7	937.4	934.8
10°	924.4	923.4	921.3	926.0	922.3
12.5°	908.3	907.2	908.3	910.9	908.3
15°	891.1	892.7	890.1	895.8	890.6
17.5°	868.2	869.8	875.0	877.1	876.5
20°	849.5	850.5	856.8	865.1	856.2
22.5°	825.0	827.6	830.7	845.8	843.7
25°	800.0	803.7	815.6	827.1	818.2
27.5°	774.0	777.6	792.2	800.5	799.5
30°	745.9	749.5	767.8	779.2	774.0
32.5°	716.7	723.0	742.8	752.7	742.8
35°	688.1	691.2	710.5	718.3	713.6
37.5°	650.1	662.1	681.3	686.6	678.2
40°	621.5	622.0	649.6	649.6	649.1
42.5°	584.5	592.9	611.1	621.0	615.8
45°	552.8	555.4	578.8	586.1	584.5
47.5°	517.9	528.3	545.5	553.8	549.7
50°	483.6	490.8	508.5	519.5	515.3
52.5°	451.8	457.5	475.7	482.0	477.8
55°	413.3	422.7	437.7	444.0	440.4
57.5°	380.0	386.7	405.5	407.6	405.5
60°	345.1	352.9	368.0	369.6	365.4
62.5°	311.8	317.0	330.5	331.0	326.4
65°	276.4	282.6	292.0	291.0	286.3
67.5°	241.5	245.7	254.5	250.9	245.7
70°	206.1	209.8	217.1	211.8	207.2
72.5°	171.8	174.4	180.6	172.8	167.1
75°	137.9	139.0	143.7	133.8	125.4
77.5°	104.6	105.7	108.3	98.4	89.0
80°	74.4	74.4	75.5	65.1	58.8
82.5°	46.8	46.8	46.3	38.5	34.9
85°	24.5	23.9	23.4	18.7	17.2
87.5°	8.8	8.8	7.3	6.8	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)