

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: P487351

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6STD-40-120-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: P487351
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-24-4-INS-A125-LD4-6STD-40-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

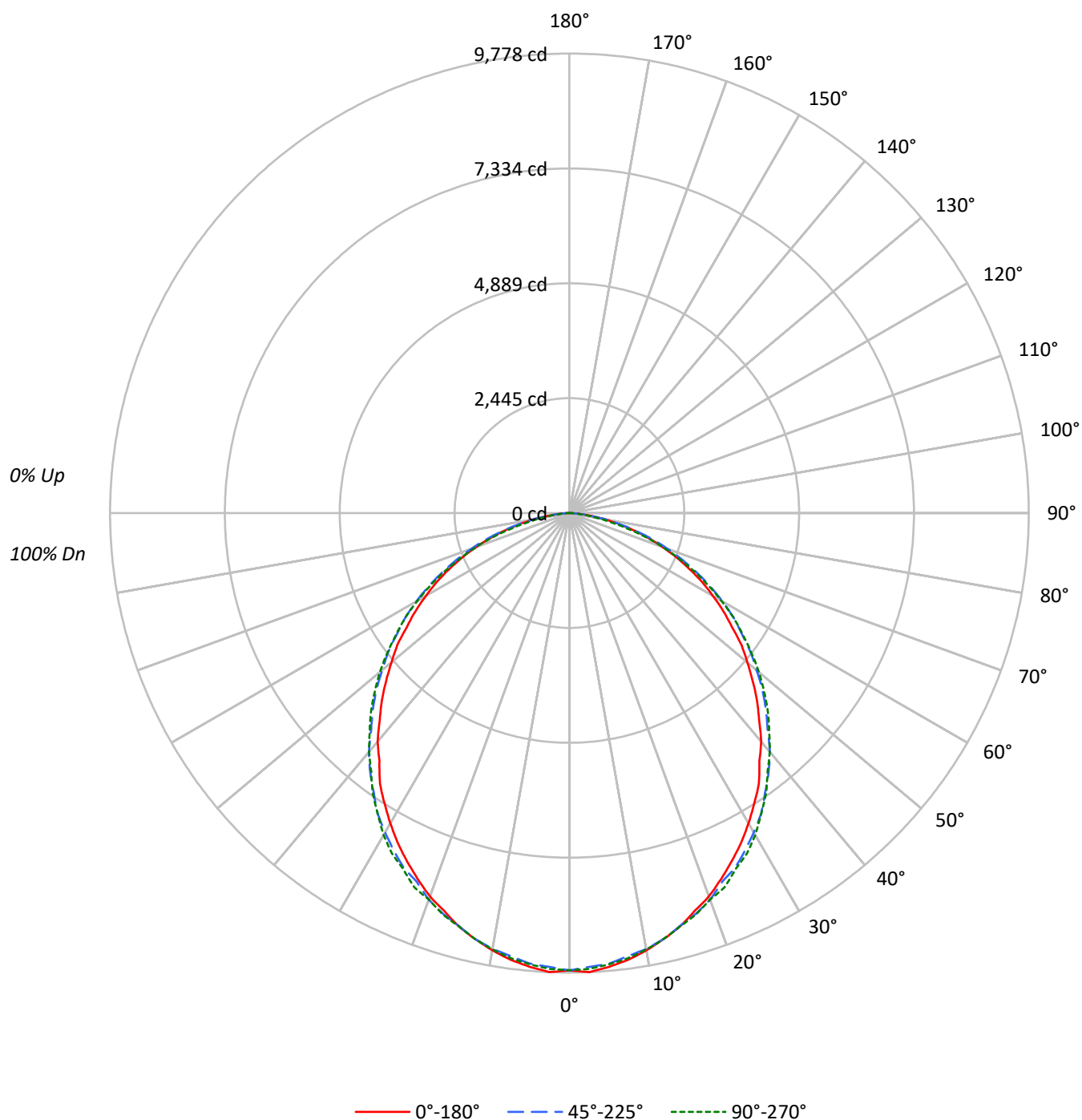
Lumens per Lamp: N/A
Luminaire Lumens: 24992.4 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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°	13092	13092	13092
5°	13092	12998	13020
10°	12908	12865	12879
15°	12687	12672	12679
20°	12431	12538	12530
25°	12139	12376	12415
30°	11844	12191	12290
35°	11552	11928	11980
40°	11157	11661	11652
45°	10750	11256	11368
50°	10345	10879	11024
55°	9909	10495	10557
60°	9491	10121	10050
65°	8994	9502	9315
70°	8288	8727	8329
75°	7329	7633	6665
80°	5894	5977	4658
85°	3859	3696	2711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	914.6	3.7
10°-20°	2571.7	10.3
20°-30°	3828.7	15.3
30°-40°	4506.6	18.0
40°-50°	4518.5	18.1
50°-60°	3962.3	15.9
60°-70°	2897.3	11.6
70°-80°	1493.2	6.0
80°-90°	299.6	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°	7314.9	29.3
0°-40°	11821.5	47.3
0°-60°	20302.3	81.2
0°-90°	24992.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24992.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9730	9730	9730	9730	9730	
5°	9693	9629	9624	9688	9640	917
15°	9108	9124	9097	9156	9102	2563
25°	8177	8214	8336	8453	8363	3766
35°	7033	7065	7262	7342	7294	4380
45°	5650	5676	5916	5990	5974	4354
55°	4224	4320	4474	4538	4501	3792
65°	2825	2889	2984	2974	2926	2794
75°	1410	1420	1468	1367	1282	1494
85°	250	245	239	192	176	326
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9730.1	9730.1	9730.1	9730.1	9730.1
2.5°	9778.0	9730.1	9666.3	9719.5	9708.8
5°	9692.9	9629.0	9623.7	9687.5	9639.7
7.5°	9586.5	9575.8	9512.0	9581.1	9554.5
10°	9448.1	9437.5	9416.2	9464.1	9426.9
12.5°	9283.2	9272.6	9283.2	9309.8	9283.2
15°	9107.7	9123.6	9097.0	9155.6	9102.4
17.5°	8873.6	8889.6	8942.8	8964.0	8958.7
20°	8682.1	8692.7	8756.6	8841.7	8751.2
22.5°	8432.0	8458.6	8490.6	8644.8	8623.6
25°	8176.7	8213.9	8336.3	8453.3	8362.9
27.5°	7910.7	7947.9	8096.9	8182.0	8171.4
30°	7623.4	7660.7	7846.9	7963.9	7910.7
32.5°	7325.5	7389.3	7591.5	7692.6	7591.5
35°	7032.9	7064.8	7261.7	7341.5	7293.6
37.5°	6644.6	6766.9	6963.8	7017.0	6931.8
40°	6352.0	6357.3	6639.2	6639.2	6633.9
42.5°	5974.3	6059.4	6245.6	6346.6	6293.4
45°	5649.7	5676.3	5915.7	5990.2	5974.3
47.5°	5293.3	5399.7	5575.3	5660.4	5617.8
50°	4942.2	5016.7	5197.5	5309.3	5266.7
52.5°	4617.7	4676.2	4862.4	4926.2	4883.7
55°	4224.0	4319.8	4474.0	4537.9	4500.6
57.5°	3883.5	3952.7	4144.2	4165.5	4144.2
60°	3527.1	3606.9	3761.2	3777.1	3734.6
62.5°	3186.6	3239.8	3378.1	3383.5	3335.6
65°	2824.9	2888.7	2984.5	2973.8	2925.9
67.5°	2468.4	2511.0	2601.4	2564.2	2511.0
70°	2106.7	2143.9	2218.4	2165.2	2117.3
72.5°	1755.6	1782.2	1846.0	1766.2	1707.7
75°	1409.8	1420.4	1468.3	1367.2	1282.1
77.5°	1069.3	1079.9	1106.5	1005.5	909.7
80°	760.7	760.7	771.4	665.0	601.1
82.5°	478.8	478.8	473.5	393.7	356.4
85°	250.0	244.7	239.4	191.5	175.6
87.5°	90.4	90.4	74.5	69.2	74.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)