

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: P487315

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5STD-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: P487315
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-LD4-5STD-40-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

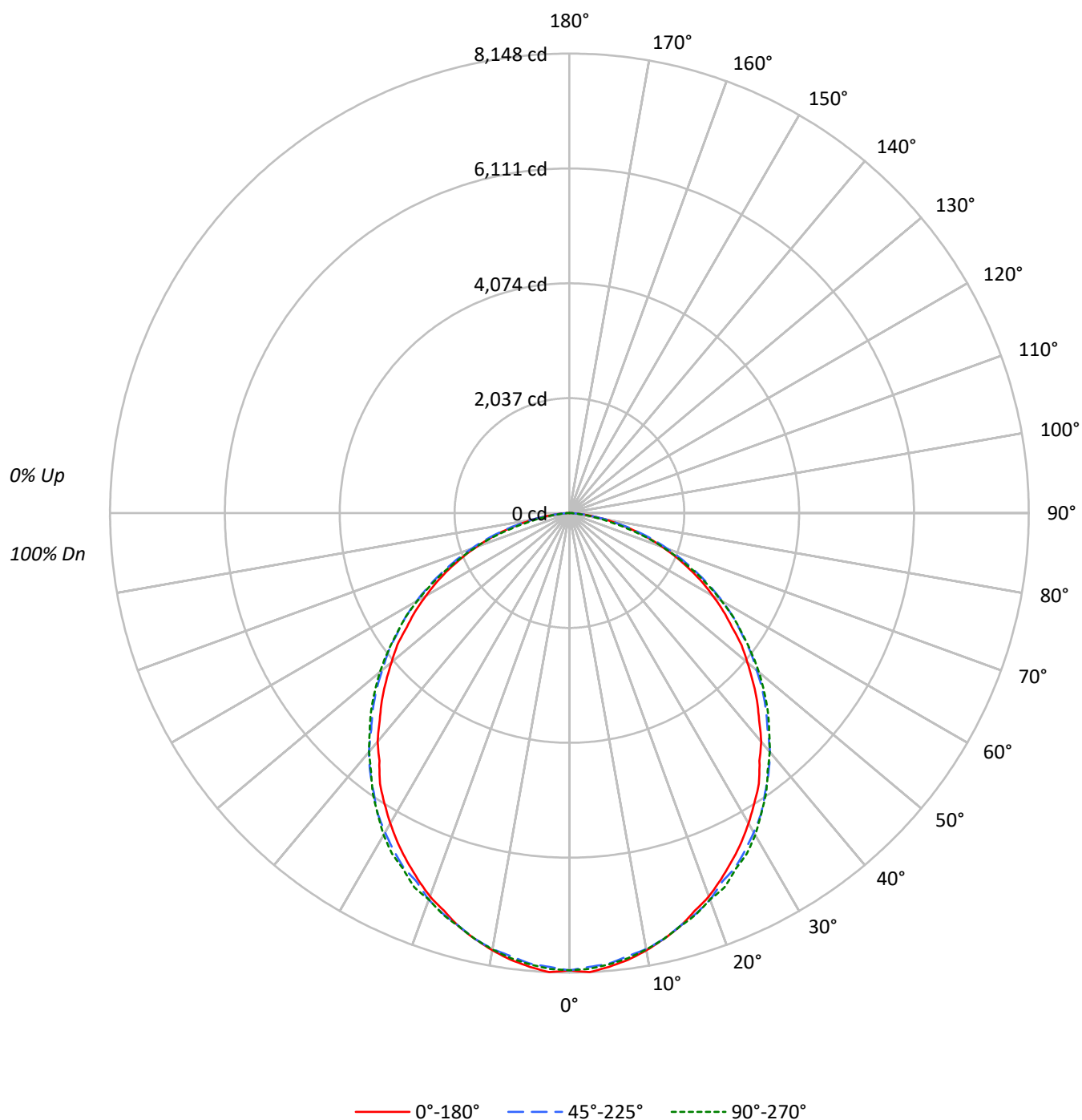
Lumens per Lamp: N/A
Luminaire Lumens: 20827.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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°	10910	10910	10910
5°	10910	10832	10850
10°	10757	10721	10733
15°	10572	10560	10566
20°	10360	10448	10442
25°	10116	10313	10346
30°	9870	10159	10242
35°	9627	9940	9983
40°	9297	9718	9710
45°	8959	9380	9473
50°	8621	9066	9187
55°	8257	8746	8798
60°	7909	8434	8375
65°	7495	7918	7763
70°	6906	7273	6941
75°	6107	6361	5554
80°	4912	4981	3882
85°	3217	3080	2259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.1	3.7
10°-20°	2143.0	10.3
20°-30°	3190.6	15.3
30°-40°	3755.5	18.0
40°-50°	3765.4	18.1
50°-60°	3301.9	15.9
60°-70°	2414.5	11.6
70°-80°	1244.3	6.0
80°-90°	249.7	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°	6095.8	29.3
0°-40°	9851.3	47.3
0°-60°	16918.6	81.2
0°-90°	20827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20827.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8108	8108	8108	8108	8108	
5°	8077	8024	8020	8073	8033	765
15°	7590	7603	7581	7630	7585	2136
25°	6814	6845	6947	7044	6969	3139
35°	5861	5887	6051	6118	6078	3650
45°	4708	4730	4930	4992	4978	3628
55°	3520	3600	3728	3782	3750	3160
65°	2354	2407	2487	2478	2438	2329
75°	1175	1184	1224	1139	1068	1245
85°	208	204	200	160	146	272
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8108.4	8108.4	8108.4	8108.4	8108.4
2.5°	8148.3	8108.4	8055.2	8099.6	8090.7
5°	8077.4	8024.2	8019.8	8073.0	8033.1
7.5°	7988.7	7979.9	7926.7	7984.3	7962.1
10°	7873.5	7864.6	7846.9	7886.8	7855.7
12.5°	7736.0	7727.2	7736.0	7758.2	7736.0
15°	7589.7	7603.0	7580.9	7629.6	7585.3
17.5°	7394.7	7408.0	7452.3	7470.0	7465.6
20°	7235.1	7243.9	7297.1	7368.1	7292.7
22.5°	7026.7	7048.9	7075.5	7204.0	7186.3
25°	6813.9	6844.9	6946.9	7044.4	6969.1
27.5°	6592.2	6623.3	6747.4	6818.3	6809.5
30°	6352.9	6383.9	6539.0	6636.6	6592.2
32.5°	6104.6	6157.8	6326.3	6410.5	6326.3
35°	5860.8	5887.4	6051.4	6117.9	6078.0
37.5°	5537.1	5639.1	5803.1	5847.5	5776.5
40°	5293.3	5297.7	5532.7	5532.7	5528.3
42.5°	4978.5	5049.5	5204.6	5288.9	5244.5
45°	4708.1	4730.3	4929.8	4991.8	4978.5
47.5°	4411.1	4499.8	4646.0	4717.0	4681.5
50°	4118.5	4180.6	4331.3	4424.4	4388.9
52.5°	3848.1	3896.8	4052.0	4105.2	4069.7
55°	3520.0	3599.8	3728.4	3781.6	3750.5
57.5°	3236.3	3293.9	3453.5	3471.2	3453.5
60°	2939.2	3005.7	3134.3	3147.6	3112.1
62.5°	2655.5	2699.9	2815.1	2819.5	2779.6
65°	2354.1	2407.3	2487.1	2478.2	2438.3
67.5°	2057.0	2092.5	2167.9	2136.8	2092.5
70°	1755.6	1786.6	1848.7	1804.3	1764.4
72.5°	1463.0	1485.1	1538.3	1471.8	1423.1
75°	1174.8	1183.7	1223.6	1139.3	1068.4
77.5°	891.1	900.0	922.1	837.9	758.1
80°	634.0	634.0	642.8	554.2	501.0
82.5°	399.0	399.0	394.6	328.1	297.0
85°	208.4	203.9	199.5	159.6	146.3
87.5°	75.4	75.4	62.1	57.6	62.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)