

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: P487334

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6LO-30-120-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: P487334
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-LD4-6LO-30-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

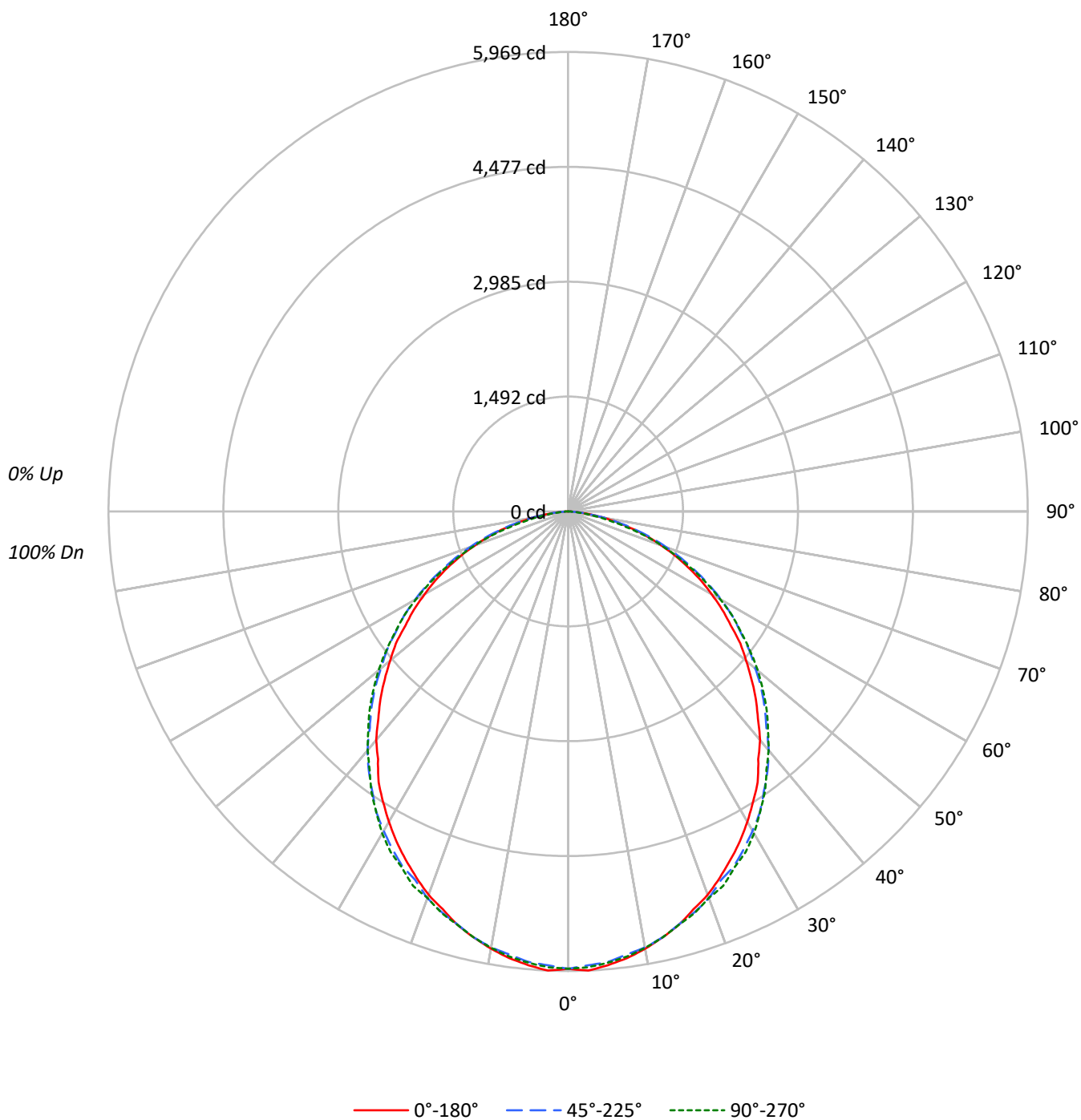
Lumens per Lamp: N/A
Luminaire Lumens: 15257.6 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.4
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°	7992	7992	7992
5°	7992	7935	7948
10°	7881	7854	7863
15°	7745	7736	7741
20°	7589	7654	7650
25°	7411	7555	7580
30°	7231	7443	7503
35°	7052	7282	7314
40°	6811	7119	7113
45°	6563	6872	6940
50°	6316	6642	6730
55°	6049	6407	6445
60°	5794	6179	6135
65°	5491	5801	5687
70°	5059	5328	5085
75°	4474	4660	4069
80°	3598	3649	2844
85°	2356	2255	1655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.3	3.7
10°-20°	1570.0	10.3
20°-30°	2337.4	15.3
30°-40°	2751.2	18.0
40°-50°	2758.5	18.1
50°-60°	2418.9	15.9
60°-70°	1768.8	11.6
70°-80°	911.6	6.0
80°-90°	182.9	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°	4465.7	29.3
0°-40°	7216.9	47.3
0°-60°	12394.3	81.2
0°-90°	15257.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15257.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5940	5940	5940	5940	5940	
5°	5917	5878	5875	5914	5885	560
15°	5560	5570	5554	5589	5557	1565
25°	4992	5014	5089	5161	5106	2299
35°	4294	4313	4433	4482	4453	2674
45°	3449	3465	3612	3657	3647	2658
55°	2579	2637	2731	2770	2748	2315
65°	1725	1764	1822	1816	1786	1706
75°	861	867	896	835	783	912
85°	153	149	146	117	107	199
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5940.1	5940.1	5940.1	5940.1	5940.1
2.5°	5969.4	5940.1	5901.2	5933.6	5927.1
5°	5917.4	5878.4	5875.2	5914.1	5884.9
7.5°	5852.4	5845.9	5807.0	5849.2	5833.0
10°	5768.0	5761.5	5748.5	5777.7	5755.0
12.5°	5667.3	5660.8	5667.3	5683.6	5667.3
15°	5560.1	5569.9	5553.6	5589.4	5556.9
17.5°	5417.2	5427.0	5459.5	5472.5	5469.2
20°	5300.3	5306.8	5345.8	5397.8	5342.5
22.5°	5147.7	5163.9	5183.4	5277.6	5264.6
25°	4991.8	5014.5	5089.2	5160.7	5105.5
27.5°	4829.4	4852.1	4943.1	4995.0	4988.5
30°	4654.0	4676.8	4790.4	4861.9	4829.4
32.5°	4472.1	4511.1	4634.5	4696.2	4634.5
35°	4293.5	4313.0	4433.2	4481.9	4452.7
37.5°	4056.4	4131.1	4251.3	4283.8	4231.8
40°	3877.8	3881.1	4053.2	4053.2	4049.9
42.5°	3647.2	3699.2	3812.9	3874.6	3842.1
45°	3449.1	3465.3	3611.5	3657.0	3647.2
47.5°	3231.5	3296.5	3403.6	3455.6	3429.6
50°	3017.2	3062.6	3173.0	3241.2	3215.3
52.5°	2819.0	2854.8	2968.4	3007.4	2981.4
55°	2578.7	2637.2	2731.4	2770.3	2747.6
57.5°	2370.9	2413.1	2530.0	2543.0	2530.0
60°	2153.3	2202.0	2296.2	2305.9	2279.9
62.5°	1945.4	1977.9	2062.3	2065.6	2036.3
65°	1724.6	1763.5	1822.0	1815.5	1786.3
67.5°	1507.0	1532.9	1588.1	1565.4	1532.9
70°	1286.1	1308.8	1354.3	1321.8	1292.6
72.5°	1071.8	1088.0	1127.0	1078.3	1042.5
75°	860.7	867.1	896.4	834.7	782.7
77.5°	652.8	659.3	675.5	613.8	555.4
80°	464.4	464.4	470.9	406.0	367.0
82.5°	292.3	292.3	289.0	240.3	217.6
85°	152.6	149.4	146.1	116.9	107.2
87.5°	55.2	55.2	45.5	42.2	45.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)