

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: P487345

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6STD-27-120-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: P487345
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-27-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

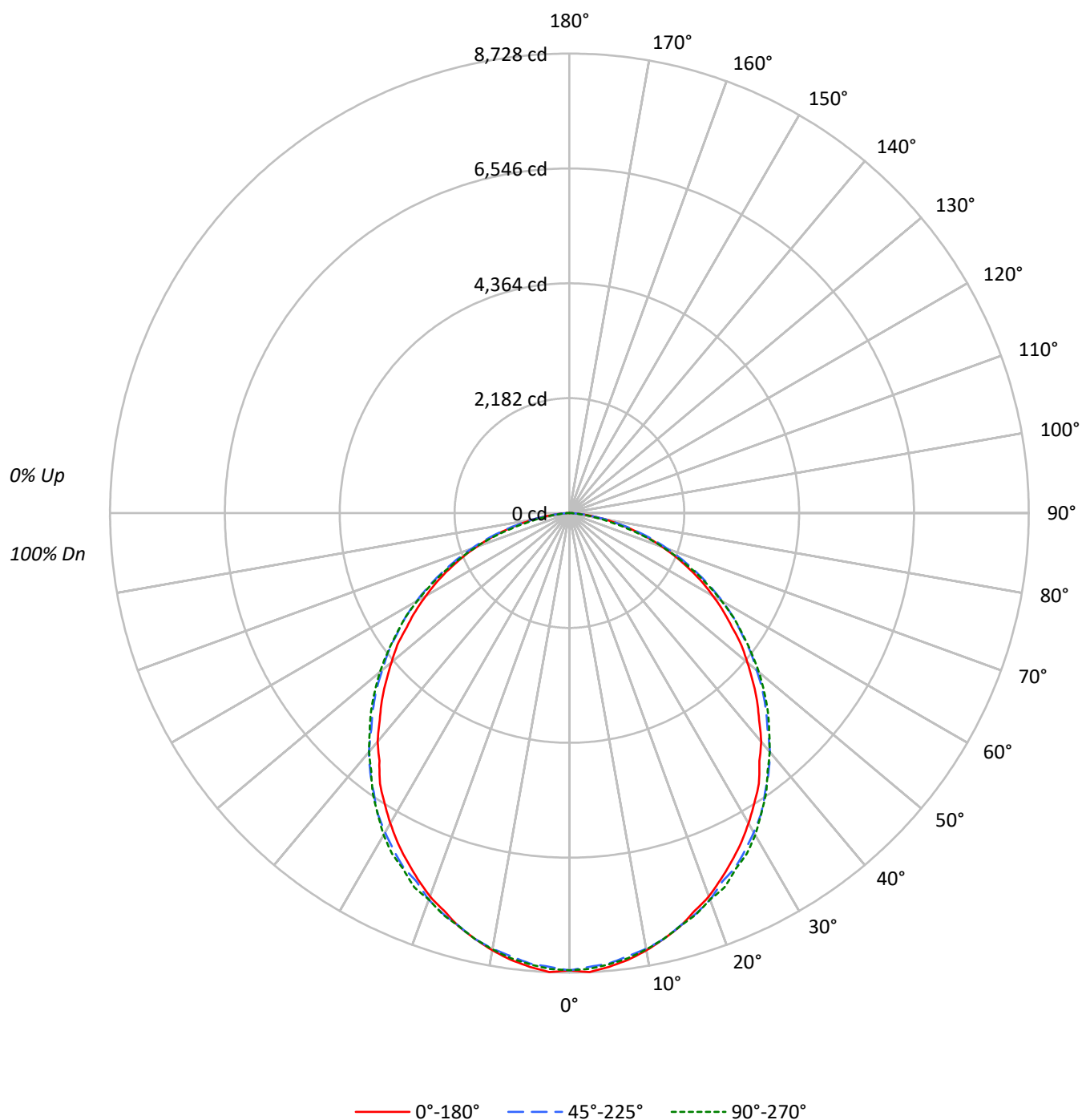
Lumens per Lamp: N/A
Luminaire Lumens: 22307.8 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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°	11685	11685	11685
5°	11685	11602	11621
10°	11522	11483	11496
15°	11324	11311	11317
20°	11096	11191	11184
25°	10835	11046	11082
30°	10572	10882	10970
35°	10311	10646	10693
40°	9958	10409	10400
45°	9596	10047	10147
50°	9234	9711	9840
55°	8844	9368	9424
60°	8472	9034	8970
65°	8027	8481	8315
70°	7397	7790	7435
75°	6541	6813	5949
80°	5261	5335	4158
85°	3446	3299	2419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.3	3.7
10°-20°	2295.4	10.3
20°-30°	3417.4	15.3
30°-40°	4022.5	18.0
40°-50°	4033.1	18.1
50°-60°	3536.7	15.9
60°-70°	2586.1	11.6
70°-80°	1332.8	6.0
80°-90°	267.4	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°	6529.2	29.3
0°-40°	10551.7	47.3
0°-60°	18121.5	81.2
0°-90°	22307.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22307.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8685	8685	8685	8685	8685	
5°	8652	8595	8590	8647	8604	819
15°	8129	8144	8120	8172	8125	2288
25°	7298	7332	7441	7545	7465	3362
35°	6278	6306	6482	6553	6510	3909
45°	5043	5067	5280	5347	5332	3886
55°	3770	3856	3994	4050	4017	3384
65°	2521	2578	2664	2654	2612	2494
75°	1258	1268	1311	1220	1144	1333
85°	223	218	214	171	157	291
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8684.9	8684.9	8684.9	8684.9	8684.9
2.5°	8727.7	8684.9	8627.9	8675.4	8665.9
5°	8651.7	8594.7	8590.0	8646.9	8604.2
7.5°	8556.7	8547.2	8490.2	8552.0	8528.2
10°	8433.3	8423.8	8404.8	8447.5	8414.3
12.5°	8286.1	8276.6	8286.1	8309.8	8286.1
15°	8129.4	8143.6	8119.9	8172.1	8124.6
17.5°	7920.4	7934.7	7982.2	8001.1	7996.4
20°	7749.5	7759.0	7816.0	7891.9	7811.2
22.5°	7526.3	7550.0	7578.5	7716.2	7697.2
25°	7298.4	7331.6	7440.8	7545.3	7464.6
27.5°	7061.0	7094.2	7227.2	7303.1	7293.6
30°	6804.5	6837.8	7004.0	7108.4	7061.0
32.5°	6538.6	6595.6	6776.0	6866.3	6776.0
35°	6277.5	6306.0	6481.6	6552.9	6510.1
37.5°	5930.8	6040.0	6215.7	6263.2	6187.2
40°	5669.7	5674.4	5926.1	5926.1	5921.3
42.5°	5332.5	5408.5	5574.7	5664.9	5617.4
45°	5042.9	5066.6	5280.3	5346.8	5332.5
47.5°	4724.7	4819.7	4976.4	5052.4	5014.4
50°	4411.3	4477.8	4639.2	4739.0	4701.0
52.5°	4121.7	4173.9	4340.1	4397.1	4359.1
55°	3770.3	3855.7	3993.5	4050.4	4017.2
57.5°	3466.4	3528.1	3699.0	3718.0	3699.0
60°	3148.2	3219.5	3357.2	3371.4	3333.4
62.5°	2844.3	2891.8	3015.3	3020.0	2977.3
65°	2521.4	2578.4	2663.9	2654.4	2611.7
67.5°	2203.3	2241.3	2322.0	2288.8	2241.3
70°	1880.4	1913.6	1980.1	1932.6	1889.9
72.5°	1567.0	1590.7	1647.7	1576.5	1524.3
75°	1258.3	1267.8	1310.6	1220.4	1144.4
77.5°	954.4	963.9	987.7	897.5	812.0
80°	679.0	679.0	688.5	593.6	536.6
82.5°	427.4	427.4	422.6	351.4	318.1
85°	223.2	218.4	213.7	170.9	156.7
87.5°	80.7	80.7	66.5	61.7	66.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)