

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: P487328

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6HI-50-120-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: P487328
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-LD4-6HI-50-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

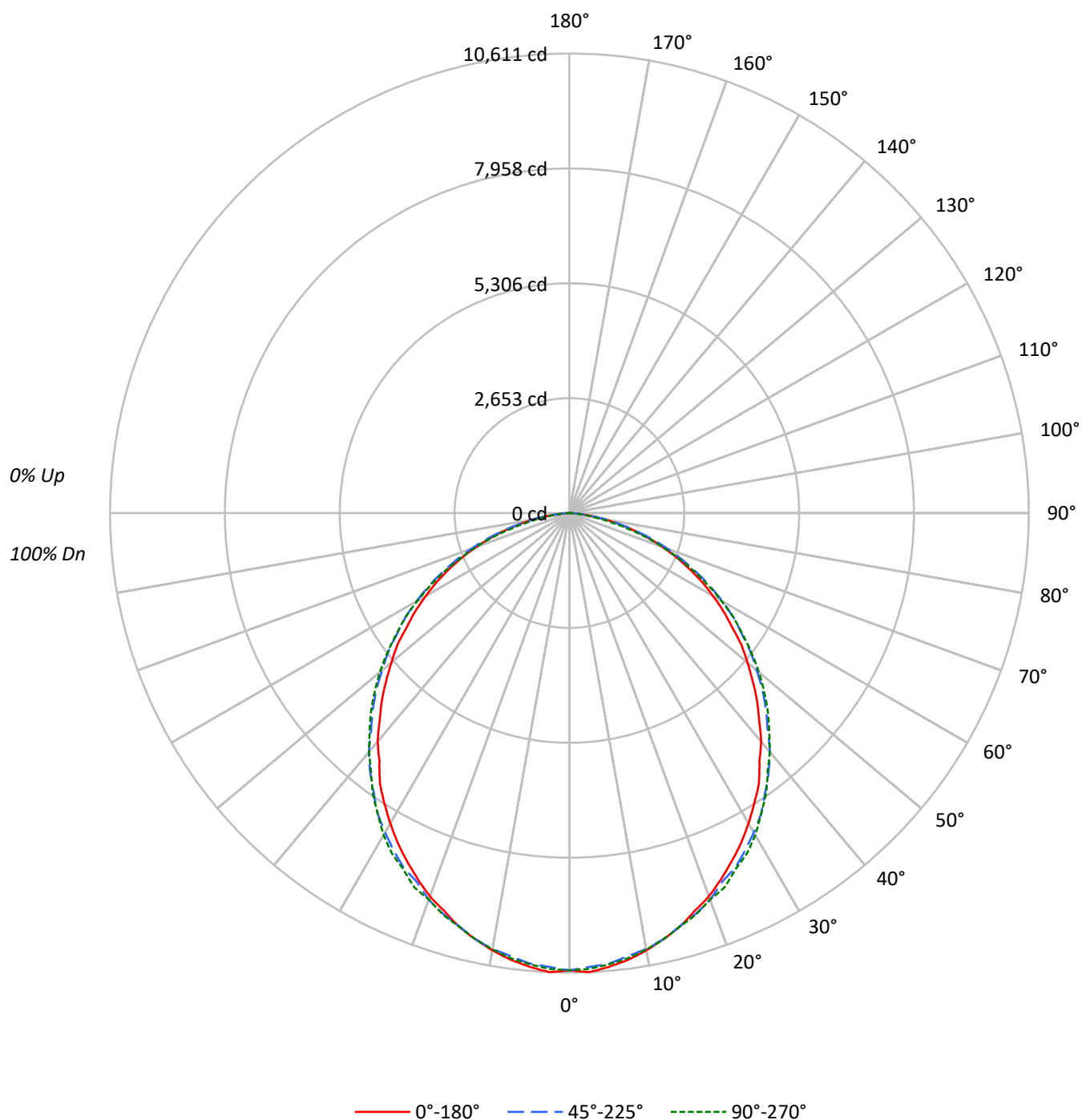
Lumens per Lamp: N/A
Luminaire Lumens: 27122.5 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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°	14208	14208	14208
5°	14207	14106	14129
10°	14009	13961	13977
15°	13768	13752	13760
20°	13491	13607	13598
25°	13174	13431	13474
30°	12854	13230	13338
35°	12536	12944	13001
40°	12107	12655	12645
45°	11667	12216	12337
50°	11227	11807	11964
55°	10753	11390	11457
60°	10300	10984	10906
65°	9760	10311	10109
70°	8994	9471	9039
75°	7953	8283	7233
80°	6397	6486	5055
85°	4188	4011	2941



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	992.5	3.7
10°-20°	2790.8	10.3
20°-30°	4155.0	15.3
30°-40°	4890.7	18.0
40°-50°	4903.6	18.1
50°-60°	4300.0	15.9
60°-70°	3144.3	11.6
70°-80°	1620.4	6.0
80°-90°	325.1	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°	7938.4	29.3
0°-40°	12829.1	47.3
0°-60°	22032.7	81.2
0°-90°	27122.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27122.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10559	10559	10559	10559	10559	
5°	10519	10450	10444	10513	10461	996
15°	9884	9901	9872	9936	9878	2782
25°	8874	8914	9047	9174	9076	4087
35°	7632	7667	7881	7967	7915	4753
45°	6131	6160	6420	6501	6483	4725
55°	4584	4688	4855	4925	4884	4115
65°	3066	3135	3239	3227	3175	3032
75°	1530	1542	1593	1484	1391	1621
85°	271	266	260	208	190	354
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10559.4	10559.4	10559.4	10559.4	10559.4
2.5°	10611.4	10559.4	10490.1	10547.9	10536.3
5°	10519.0	10449.7	10443.9	10513.2	10461.3
7.5°	10403.5	10392.0	10322.7	10397.7	10368.9
10°	10253.4	10241.9	10218.8	10270.7	10230.3
12.5°	10074.4	10062.9	10074.4	10103.3	10074.4
15°	9883.9	9901.2	9872.4	9935.9	9878.1
17.5°	9629.9	9647.2	9704.9	9728.0	9722.3
20°	9422.1	9433.6	9502.9	9595.3	9497.1
22.5°	9150.7	9179.6	9214.2	9381.6	9358.5
25°	8873.6	8914.0	9046.8	9173.8	9075.7
27.5°	8584.9	8625.3	8787.0	8879.4	8867.8
30°	8273.2	8313.6	8515.6	8642.7	8584.9
32.5°	7949.9	8019.1	8238.5	8348.2	8238.5
35°	7632.3	7667.0	7880.6	7967.2	7915.2
37.5°	7210.9	7343.7	7557.3	7615.0	7522.6
40°	6893.3	6899.1	7205.1	7205.1	7199.3
42.5°	6483.4	6575.8	6777.9	6887.6	6829.8
45°	6131.3	6160.1	6419.9	6500.8	6483.4
47.5°	5744.5	5859.9	6050.4	6142.8	6096.6
50°	5363.4	5444.2	5640.5	5761.8	5715.6
52.5°	5011.2	5074.7	5276.8	5346.1	5299.9
55°	4584.0	4687.9	4855.4	4924.6	4884.2
57.5°	4214.5	4289.6	4497.4	4520.5	4497.4
60°	3827.7	3914.3	4081.7	4099.1	4052.9
62.5°	3458.2	3516.0	3666.1	3671.8	3619.9
65°	3065.6	3134.9	3238.8	3227.3	3175.3
67.5°	2678.8	2725.0	2823.2	2782.7	2725.0
70°	2286.2	2326.6	2407.5	2349.7	2297.8
72.5°	1905.2	1934.1	2003.3	1916.7	1853.2
75°	1529.9	1541.5	1593.4	1483.7	1391.4
77.5°	1160.4	1172.0	1200.8	1091.2	987.2
80°	825.6	825.6	837.1	721.7	652.4
82.5°	519.6	519.6	513.8	427.2	386.8
85°	271.3	265.6	259.8	207.8	190.5
87.5°	98.1	98.1	80.8	75.1	80.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)