

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: P487256

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4HI-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: P487256
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-LD4-4HI-50-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

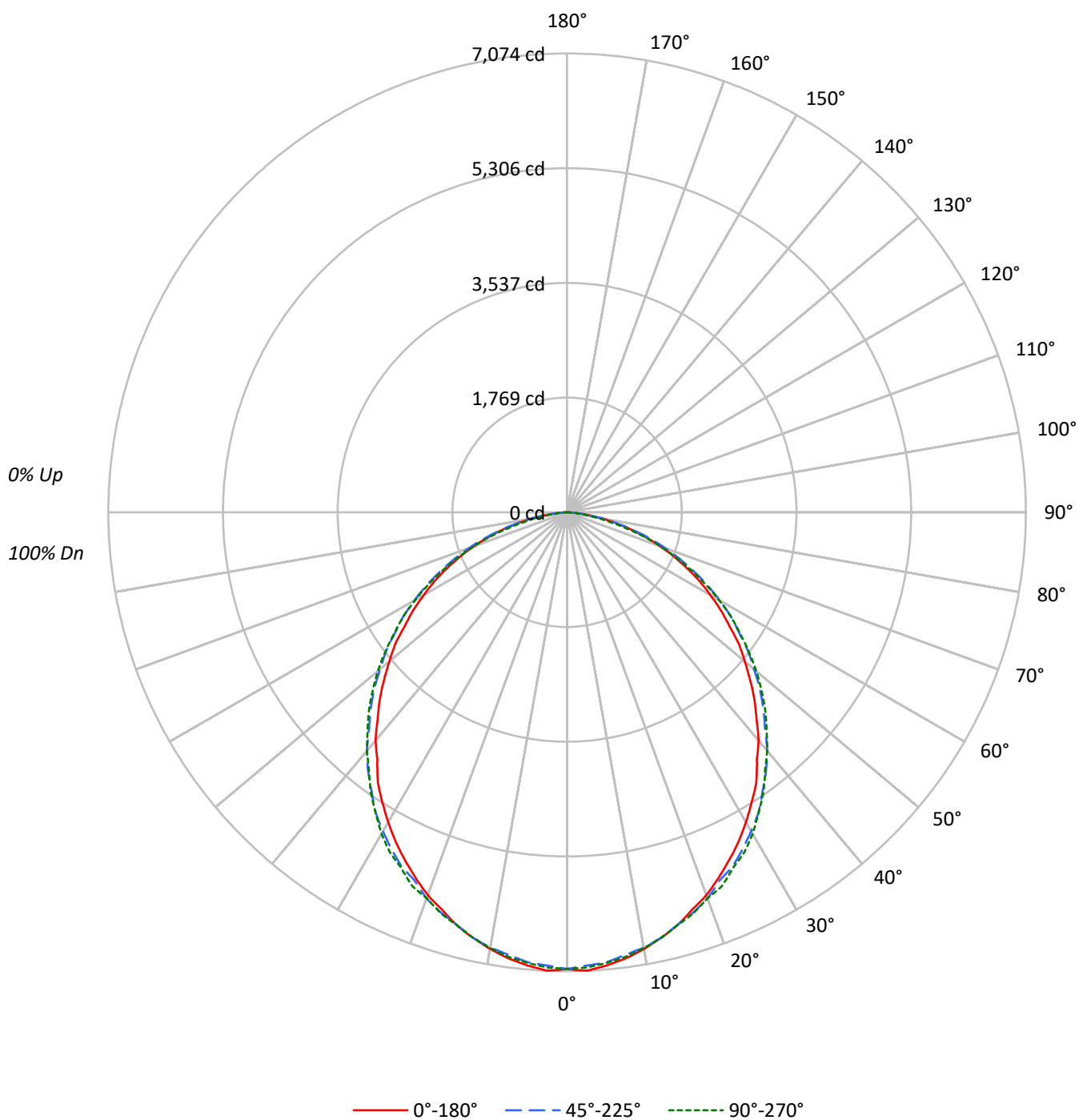
Lumens per Lamp: N/A
Luminaire Lumens: 18081.6 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 176
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°	9472	9472	9472
5°	9471	9404	9419
10°	9339	9308	9318
15°	9179	9168	9173
20°	8994	9071	9066
25°	8782	8954	8982
30°	8569	8820	8892
35°	8358	8629	8667
40°	8072	8437	8430
45°	7778	8144	8225
50°	7484	7871	7976
55°	7169	7593	7638
60°	6867	7322	7271
65°	6507	6874	6740
70°	5996	6314	6026
75°	5302	5522	4822
80°	4265	4324	3370
85°	2793	2674	1961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.7	3.7
10°-20°	1860.6	10.3
20°-30°	2770.0	15.3
30°-40°	3260.5	18.0
40°-50°	3269.0	18.1
50°-60°	2866.7	15.9
60°-70°	2096.2	11.6
70°-80°	1080.3	6.0
80°-90°	216.7	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°	5292.2	29.3
0°-40°	8552.7	47.3
0°-60°	14688.4	81.2
0°-90°	18081.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18081.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7040	7040	7040	7040	7040	
5°	7013	6966	6963	7009	6974	664
15°	6589	6601	6582	6624	6585	1854
25°	5916	5943	6031	6116	6050	2725
35°	5088	5111	5254	5311	5277	3169
45°	4088	4107	4280	4334	4322	3150
55°	3056	3125	3237	3283	3256	2743
65°	2044	2090	2159	2152	2117	2022
75°	1020	1028	1062	989	928	1081
85°	181	177	173	139	127	236
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7039.6	7039.6	7039.6	7039.6	7039.6
2.5°	7074.2	7039.6	6993.4	7031.9	7024.2
5°	7012.6	6966.4	6962.6	7008.8	6974.1
7.5°	6935.7	6928.0	6881.8	6931.8	6912.6
10°	6835.6	6827.9	6812.5	6847.1	6820.2
12.5°	6716.3	6708.6	6716.3	6735.5	6716.3
15°	6589.3	6600.8	6581.6	6623.9	6585.4
17.5°	6419.9	6431.5	6469.9	6485.3	6481.5
20°	6281.3	6289.0	6335.2	6396.8	6331.4
22.5°	6100.4	6119.7	6142.8	6254.4	6239.0
25°	5915.7	5942.6	6031.2	6115.8	6050.4
27.5°	5723.3	5750.2	5858.0	5919.6	5911.9
30°	5515.4	5542.4	5677.1	5761.7	5723.3
32.5°	5299.9	5346.1	5492.3	5565.5	5492.3
35°	5088.2	5111.3	5253.7	5311.4	5276.8
37.5°	4807.2	4895.8	5038.2	5076.7	5015.1
40°	4595.5	4599.4	4803.4	4803.4	4799.5
42.5°	4322.3	4383.9	4518.6	4591.7	4553.2
45°	4087.5	4106.7	4279.9	4333.8	4322.3
47.5°	3829.6	3906.6	4033.6	4095.2	4064.4
50°	3575.6	3629.5	3760.3	3841.2	3810.4
52.5°	3340.8	3383.2	3517.9	3564.0	3533.3
55°	3056.0	3125.3	3236.9	3283.1	3256.1
57.5°	2809.7	2859.7	2998.3	3013.7	2998.3
60°	2551.8	2609.5	2721.1	2732.7	2701.9
62.5°	2305.5	2344.0	2444.0	2447.9	2413.2
65°	2043.7	2089.9	2159.2	2151.5	2116.9
67.5°	1785.9	1816.7	1882.1	1855.2	1816.7
70°	1524.2	1551.1	1605.0	1566.5	1531.8
72.5°	1270.1	1289.4	1335.6	1277.8	1235.5
75°	1019.9	1027.6	1062.3	989.2	927.6
77.5°	773.6	781.3	800.6	727.4	658.2
80°	550.4	550.4	558.1	481.1	434.9
82.5°	346.4	346.4	342.5	284.8	257.9
85°	180.9	177.0	173.2	138.6	127.0
87.5°	65.4	65.4	53.9	50.0	53.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)