

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: P487323

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6HI-30-120-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: P487323
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-30-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

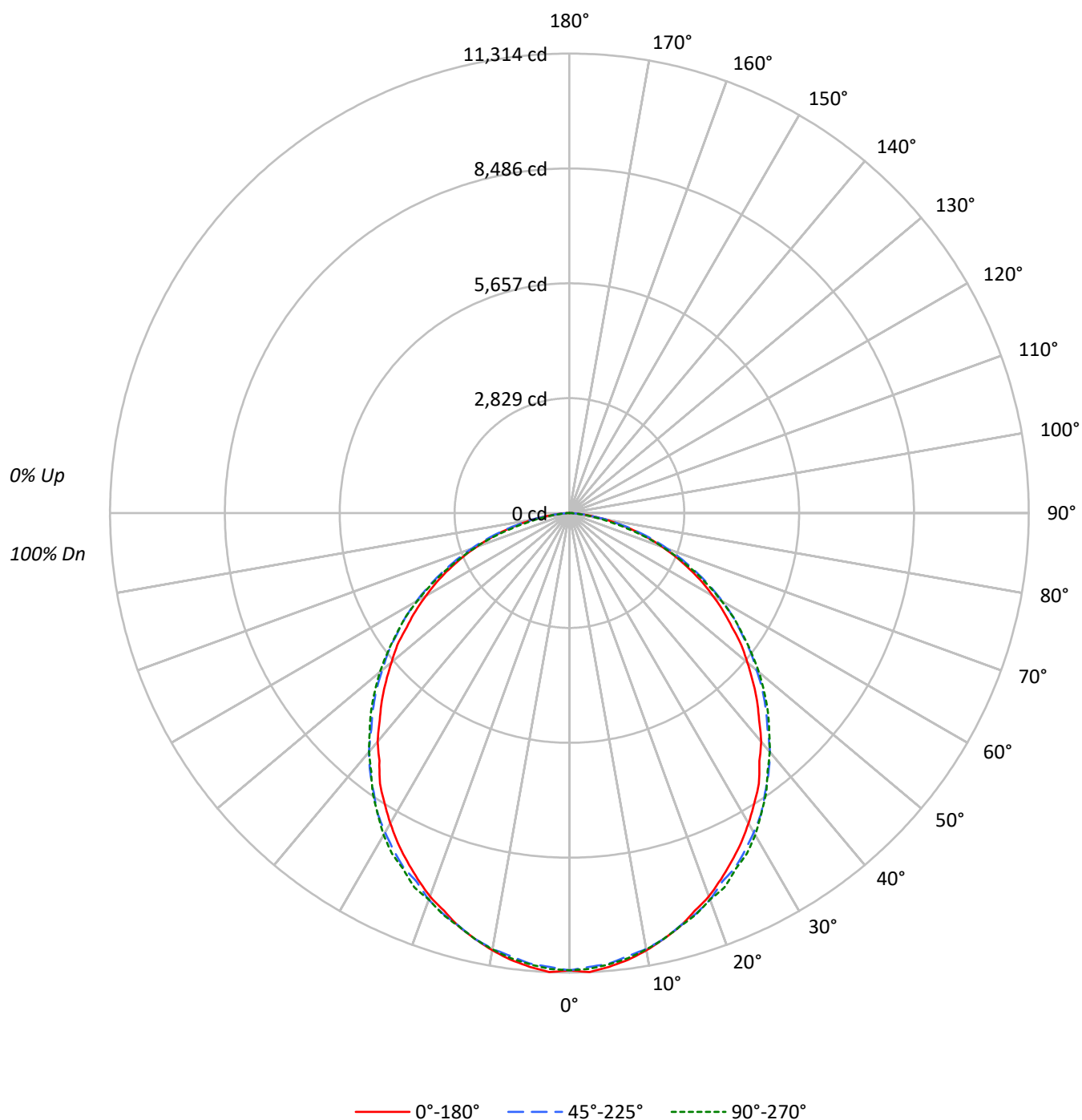
Lumens per Lamp: N/A
Luminaire Lumens: 28917.9 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					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°	15148	15148	15148
5°	15148	15040	15065
10°	14936	14886	14902
15°	14679	14662	14671
20°	14384	14507	14499
25°	14046	14320	14365
30°	13704	14106	14221
35°	13366	13801	13862
40°	12909	13493	13482
45°	12439	13025	13153
50°	11970	12588	12756
55°	11465	12144	12216
60°	10982	11711	11628
65°	10406	10994	10778
70°	9589	10098	9638
75°	8480	8832	7712
80°	6820	6915	5390
85°	4466	4276	3135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1058.2	3.7
10°-20°	2975.6	10.3
20°-30°	4430.1	15.3
30°-40°	5214.5	18.0
40°-50°	5228.2	18.1
50°-60°	4584.6	15.9
60°-70°	3352.4	11.6
70°-80°	1727.7	6.0
80°-90°	346.6	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°	8463.9	29.3
0°-40°	13678.3	47.3
0°-60°	23491.1	81.2
0°-90°	28917.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28917.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11258	11258	11258	11258	11258	
5°	11215	11141	11135	11209	11154	###
15°	10538	10557	10526	10594	10532	2966
25°	9461	9504	9646	9781	9676	4358
35°	8138	8174	8402	8495	8439	5068
45°	6537	6568	6845	6931	6913	5038
55°	4888	4998	5177	5251	5208	4387
65°	3269	3342	3453	3441	3386	3233
75°	1631	1644	1699	1582	1484	1729
85°	289	283	277	222	203	377
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11258.4	11258.4	11258.4	11258.4	11258.4
2.5°	11313.8	11258.4	11184.5	11246.1	11233.8
5°	11215.3	11141.4	11135.3	11209.1	11153.7
7.5°	11092.2	11079.9	11006.0	11086.0	11055.3
10°	10932.1	10919.8	10895.2	10950.6	10907.5
12.5°	10741.3	10729.0	10741.3	10772.1	10741.3
15°	10538.2	10556.7	10525.9	10593.6	10532.0
17.5°	10267.4	10285.8	10347.4	10372.0	10365.8
20°	10045.8	10058.1	10131.9	10230.4	10125.8
22.5°	9756.4	9787.2	9824.2	10002.7	9978.0
25°	9461.0	9504.1	9645.6	9781.1	9676.4
27.5°	9153.2	9196.3	9368.7	9467.1	9454.8
30°	8820.8	8863.9	9079.3	9214.8	9153.2
32.5°	8476.1	8550.0	8783.9	8900.8	8783.9
35°	8137.6	8174.5	8402.2	8494.6	8439.2
37.5°	7688.2	7829.8	8057.5	8119.1	8020.6
40°	7349.7	7355.8	7682.0	7682.0	7675.9
42.5°	6912.6	7011.1	7226.5	7343.5	7281.9
45°	6537.1	6567.9	6844.9	6931.1	6912.6
47.5°	6124.7	6247.8	6451.0	6549.4	6500.2
50°	5718.4	5804.6	6013.9	6143.2	6093.9
52.5°	5343.0	5410.7	5626.1	5700.0	5650.7
55°	4887.5	4998.3	5176.8	5250.6	5207.5
57.5°	4493.5	4573.5	4795.1	4819.7	4795.1
60°	4081.1	4173.4	4351.9	4370.4	4321.2
62.5°	3687.1	3748.7	3908.7	3914.9	3859.5
65°	3268.6	3342.4	3453.2	3440.9	3385.5
67.5°	2856.1	2905.4	3010.0	2966.9	2905.4
70°	2437.6	2480.7	2566.8	2505.3	2449.9
72.5°	2031.3	2062.1	2136.0	2043.6	1975.9
75°	1631.2	1643.5	1698.9	1582.0	1483.5
77.5°	1237.3	1249.6	1280.3	1163.4	1052.6
80°	880.2	880.2	892.5	769.4	695.6
82.5°	554.0	554.0	547.8	455.5	412.4
85°	289.3	283.2	277.0	221.6	203.1
87.5°	104.6	104.6	86.2	80.0	86.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)