

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: P487292

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5HI-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: P487292
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-LD4-5HI-50-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

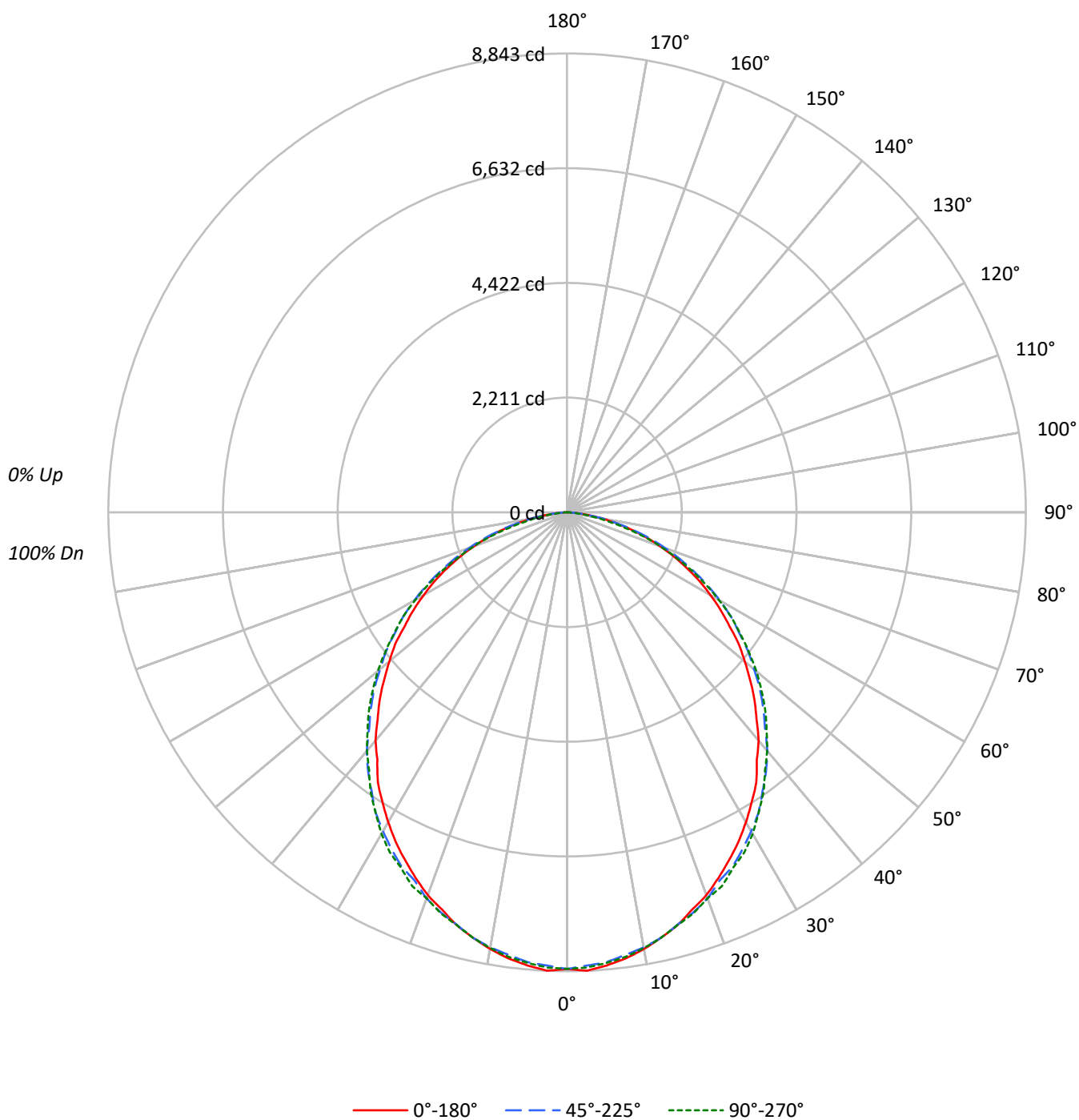
Lumens per Lamp: N/A
Luminaire Lumens: 22602.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
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°	11840	11840	11840
5°	11839	11755	11774
10°	11674	11634	11648
15°	11473	11460	11467
20°	11242	11339	11332
25°	10978	11192	11228
30°	10711	11025	11115
35°	10447	10787	10834
40°	10090	10546	10537
45°	9722	10180	10280
50°	9356	9839	9970
55°	8961	9491	9548
60°	8583	9153	9089
65°	8133	8593	8424
70°	7495	7892	7533
75°	6628	6903	6028
80°	5331	5405	4213
85°	3490	3342	2452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.1	3.7
10°-20°	2325.7	10.3
20°-30°	3462.5	15.3
30°-40°	4075.6	18.0
40°-50°	4086.3	18.1
50°-60°	3583.3	15.9
60°-70°	2620.2	11.6
70°-80°	1350.4	6.0
80°-90°	270.9	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°	6615.3	29.3
0°-40°	10690.9	47.3
0°-60°	18360.5	81.2
0°-90°	22602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8800	8800	8800	8800	8800	
5°	8766	8708	8703	8761	8718	830
15°	8237	8251	8227	8280	8232	2318
25°	7395	7428	7539	7645	7563	3406
35°	6360	6389	6567	6639	6596	3961
45°	5109	5133	5350	5417	5403	3938
55°	3820	3907	4046	4104	4070	3429
65°	2555	2612	2699	2689	2646	2527
75°	1275	1285	1328	1236	1160	1351
85°	226	221	216	173	159	295
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8799.5	8799.5	8799.5	8799.5	8799.5
2.5°	8842.8	8799.5	8741.7	8789.8	8780.2
5°	8765.8	8708.1	8703.2	8761.0	8717.7
7.5°	8669.6	8659.9	8602.2	8664.8	8640.7
10°	8544.5	8534.9	8515.6	8558.9	8525.2
12.5°	8395.3	8385.7	8395.3	8419.4	8395.3
15°	8236.6	8251.0	8226.9	8279.9	8231.8
17.5°	8024.9	8039.3	8087.4	8106.7	8101.9
20°	7851.7	7861.3	7919.0	7996.0	7914.2
22.5°	7625.6	7649.6	7678.5	7818.0	7798.8
25°	7394.6	7428.3	7539.0	7644.8	7563.0
27.5°	7154.1	7187.8	7322.5	7399.4	7389.8
30°	6894.3	6928.0	7096.3	7202.2	7154.1
32.5°	6624.9	6682.6	6865.4	6956.8	6865.4
35°	6360.2	6389.1	6567.1	6639.3	6596.0
37.5°	6009.0	6119.7	6297.7	6345.8	6268.8
40°	5744.4	5749.2	6004.2	6004.2	5999.4
42.5°	5402.8	5479.8	5648.2	5739.6	5691.5
45°	5109.4	5133.4	5349.9	5417.3	5402.8
47.5°	4787.0	4883.2	5042.0	5119.0	5080.5
50°	4469.5	4536.8	4700.4	4801.5	4763.0
52.5°	4176.0	4228.9	4397.3	4455.1	4416.6
55°	3820.0	3906.6	4046.1	4103.9	4070.2
57.5°	3512.1	3574.6	3747.8	3767.1	3747.8
60°	3189.7	3261.9	3401.4	3415.9	3377.4
62.5°	2881.8	2929.9	3055.0	3059.8	3016.5
65°	2554.7	2612.4	2699.0	2689.4	2646.1
67.5°	2232.3	2270.8	2352.6	2318.9	2270.8
70°	1905.2	1938.9	2006.2	1958.1	1914.8
72.5°	1587.7	1611.7	1669.4	1597.3	1544.4
75°	1274.9	1284.6	1327.9	1236.4	1159.5
77.5°	967.0	976.6	1000.7	909.3	822.7
80°	688.0	688.0	697.6	601.4	543.7
82.5°	433.0	433.0	428.2	356.0	322.3
85°	226.1	221.3	216.5	173.2	158.8
87.5°	81.8	81.8	67.4	62.5	67.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)