

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: P487246

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4HI-20-120-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: P487246
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-20-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

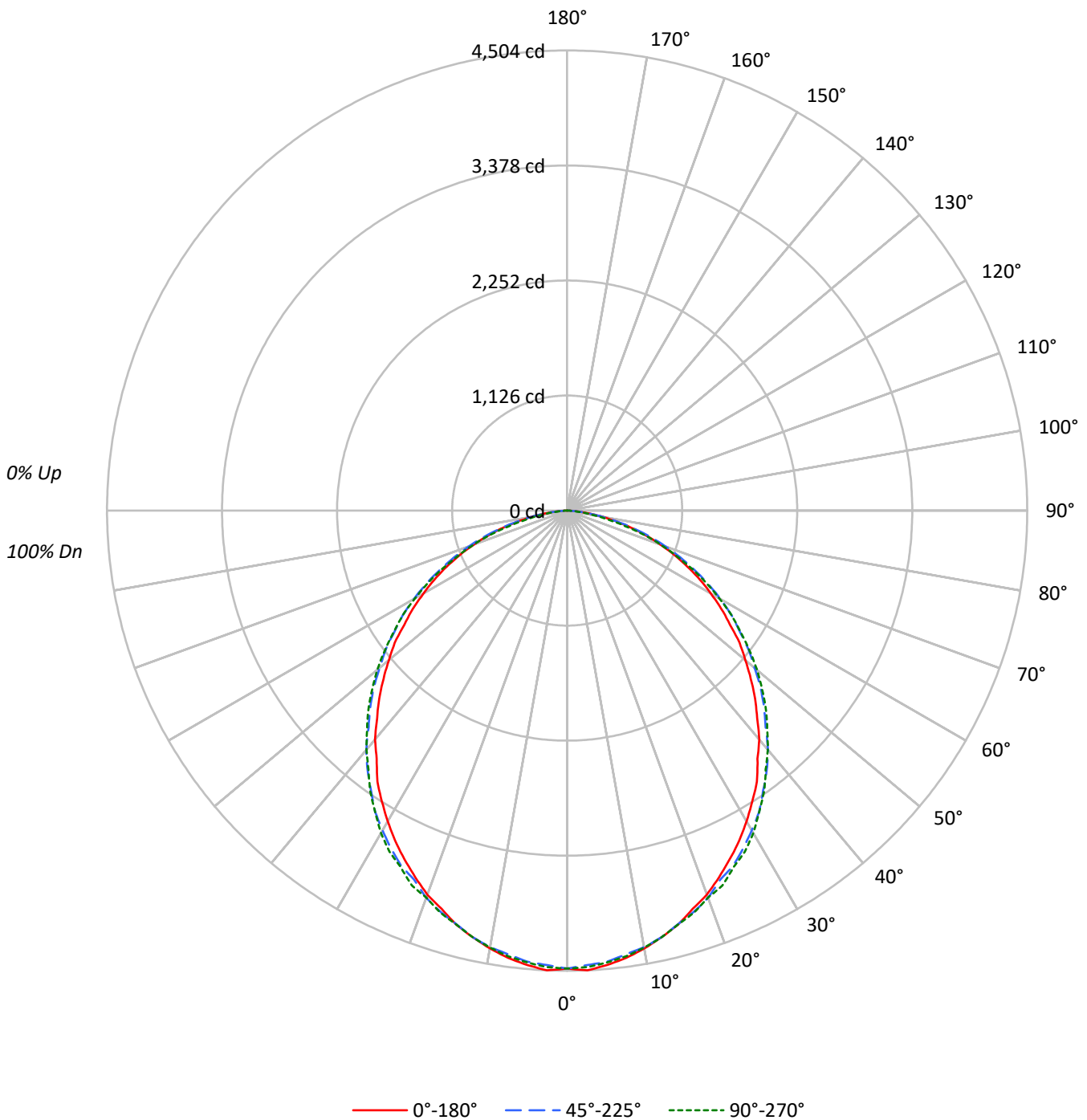
Lumens per Lamp: N/A
Luminaire Lumens: 11513.2 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6031	6031	6031
5°	6031	5988	5998
10°	5947	5927	5933
15°	5844	5837	5841
20°	5727	5776	5772
25°	5592	5701	5719
30°	5456	5616	5662
35°	5321	5495	5519
40°	5139	5372	5368
45°	4952	5186	5237
50°	4766	5012	5079
55°	4565	4835	4864
60°	4372	4663	4630
65°	4143	4377	4291
70°	3818	4020	3837
75°	3376	3516	3070
80°	2716	2754	2146
85°	1778	1703	1249



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.3	3.7
10°-20°	1184.7	10.3
20°-30°	1763.8	15.3
30°-40°	2076.1	18.0
40°-50°	2081.5	18.1
50°-60°	1825.3	15.9
60°-70°	1334.7	11.6
70°-80°	687.8	6.0
80°-90°	138.0	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°	3369.8	29.3
0°-40°	5445.8	47.3
0°-60°	9352.6	81.2
0°-90°	11513.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11513.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4482	4482	4482	4482	4482	
5°	4465	4436	4433	4463	4441	423
15°	4196	4203	4191	4218	4193	1181
25°	3767	3784	3840	3894	3852	1735
35°	3240	3254	3345	3382	3360	2018
45°	2603	2615	2725	2760	2752	2006
55°	1946	1990	2061	2090	2073	1747
65°	1301	1331	1375	1370	1348	1287
75°	649	654	676	630	591	688
85°	115	113	110	88	81	150
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4482.3	4482.3	4482.3	4482.3	4482.3
2.5°	4504.4	4482.3	4452.9	4477.4	4472.5
5°	4465.2	4435.8	4433.3	4462.7	4440.7
7.5°	4416.2	4411.3	4381.9	4413.7	4401.5
10°	4352.5	4347.6	4337.8	4359.8	4342.7
12.5°	4276.5	4271.6	4276.5	4288.7	4276.5
15°	4195.6	4203.0	4190.7	4217.7	4193.2
17.5°	4087.8	4095.1	4119.6	4129.4	4127.0
20°	3999.6	4004.5	4033.9	4073.1	4031.4
22.5°	3884.4	3896.6	3911.3	3982.4	3972.6
25°	3766.7	3783.9	3840.3	3894.2	3852.5
27.5°	3644.2	3661.4	3730.0	3769.2	3764.3
30°	3511.9	3529.0	3614.8	3668.7	3644.2
32.5°	3374.6	3404.0	3497.2	3543.7	3497.2
35°	3239.8	3254.5	3345.2	3382.0	3359.9
37.5°	3060.9	3117.3	3208.0	3232.5	3193.3
40°	2926.1	2928.6	3058.5	3058.5	3056.0
42.5°	2752.1	2791.4	2877.1	2923.7	2899.2
45°	2602.7	2614.9	2725.2	2759.5	2752.1
47.5°	2438.5	2487.5	2568.3	2607.6	2587.9
50°	2276.7	2311.0	2394.3	2445.8	2426.2
52.5°	2127.2	2154.2	2239.9	2269.4	2249.8
55°	1945.9	1990.0	2061.0	2090.5	2073.3
57.5°	1789.0	1820.9	1909.1	1918.9	1909.1
60°	1624.8	1661.6	1732.7	1740.0	1720.4
62.5°	1468.0	1492.5	1556.2	1558.7	1536.6
65°	1301.3	1330.7	1374.8	1369.9	1347.9
67.5°	1137.1	1156.7	1198.4	1181.2	1156.7
70°	970.5	987.6	1021.9	997.4	975.4
72.5°	808.7	821.0	850.4	813.6	786.7
75°	649.4	654.3	676.4	629.8	590.6
77.5°	492.6	497.5	509.7	463.2	419.1
80°	350.5	350.5	355.4	306.3	276.9
82.5°	220.6	220.6	218.1	181.4	164.2
85°	115.2	112.7	110.3	88.2	80.9
87.5°	41.7	41.7	34.3	31.9	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)