

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: PORTFOLIO

Report Number: P492702

Luminaire Tested: **LDA2B059024R30D010 2LBDC1MMS-30DEG TILT**

Issue Date: 3/8/2021

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: P492702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/8/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B059024R30D010 2LBDC1MMS-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

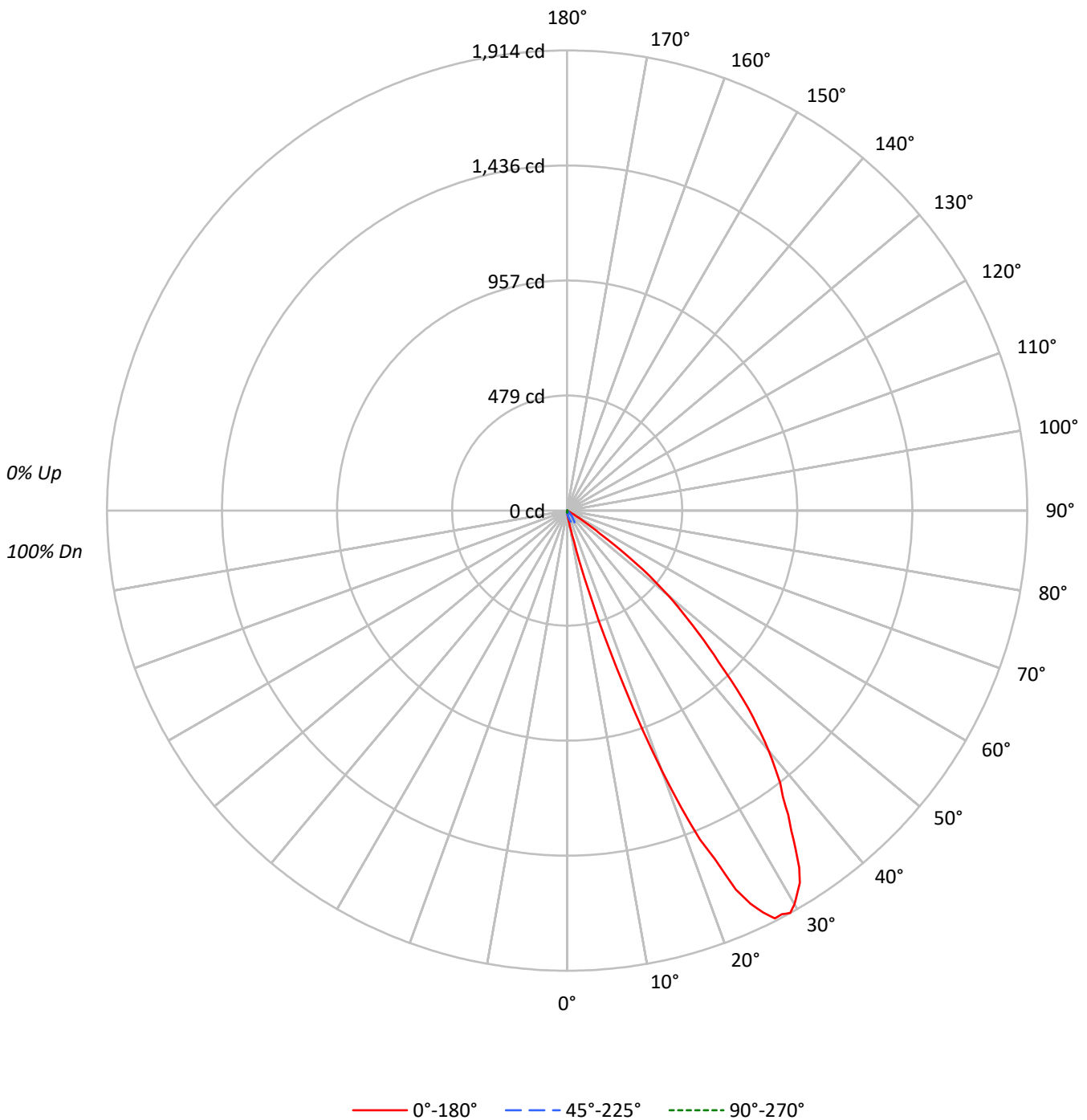
Lumens per Lamp: N/A
Luminaire Lumens: 385.0 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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

TEST NUMBER: P492702

CATALOG NUMBER: LDA2B059024R30D010 2LBDC1MMS-30DEG TILT

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	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					100			
1	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92					90				
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82					80				
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73					71				
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65					63				
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	57					56				
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51					49				
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45					44				
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40					39				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36					34				
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32					31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4243	4243	4243
5°	9261	3863	2773
10°	27804	3357	1804
15°	168757	2401	1430
20°	604146	1313	578
25°	981816	435	0
30°	1077502	171	0
35°	979193	0	0
40°	840470	0	0
45°	622993	0	0
50°	421223	0	0
55°	142355	258	0
60°	20327	592	0
65°	1634	700	0
70°	0	865	0
75°	0	1525	0
80°	0	1705	0
85°	0	3396	0



TEST NUMBER: P492702

CATALOG NUMBER: LDA2B059024R30D010 2LBDC1MMS-30DEG TILT

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.3
10°-20°	19.8	5.2
20°-30°	112.5	29.2
30°-40°	146.6	38.1
40°-50°	85.9	22.3
50°-60°	17.4	4.5
60°-70°	0.7	0.2
70°-80°	0.5	0.1
80°-90°	0.4	0.1
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°	133.5	34.7
0°-40°	280.1	72.8
0°-60°	383.4	99.6
0°-90°	385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	385.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	19	13	8	6	6	3
15°	330	38	5	3	3	140
25°	1804	63	1	1	0	798
35°	1626	46	0	0	0	1012
45°	893	11	0	0	0	697
55°	166	1	0	0	0	193
65°	1	0	1	1	0	4
75°	0	1	1	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
2.5°	11.7	10.9	10.3	8.9	8.1	7.5	7.3	7.0	6.7
5°	18.7	17.3	13.4	9.8	7.8	6.7	6.1	5.6	5.6
7.5°	32.1	25.9	17.6	10.3	7.3	5.9	5.3	4.5	4.2
10°	55.5	43.2	24.0	10.9	6.7	5.3	4.2	3.9	3.6
12.5°	130.3	79.0	30.4	10.9	5.9	4.5	3.6	3.3	3.1
15°	330.4	161.0	37.7	10.3	4.7	3.3	3.1	2.8	2.8
17.5°	685.3	330.6	45.8	9.5	3.9	2.5	2.2	2.0	2.0
20°	1150.7	592.6	53.6	8.1	2.5	1.7	1.4	1.1	1.1
21°	1322.0	687.8	57.5	7.5	2.2	1.4	1.1	1.1	0.8
22°	1476.0	775.1	59.7	7.3	1.7	1.1	1.1	0.8	0.8
23°	1575.3	885.9	61.7	6.4	1.4	0.8	0.8	0.6	0.3
24°	1725.2	972.6	62.5	5.9	1.1	0.8	0.6	0.3	0.3
25°	1803.6	1051.3	63.3	5.3	0.8	0.8	0.6	0.3	0.0
26°	1859.9	1113.6	66.4	5.0	0.8	0.6	0.6	0.3	0.0
27°	1904.0	1153.2	68.1	4.5	0.6	0.6	0.6	0.0	0.0
28°	1901.5	1181.9	66.7	3.9	0.6	0.6	0.3	0.0	0.0
29°	1913.5	1201.4	65.8	3.3	0.3	0.3	0.3	0.0	0.0
30°	1891.4	1203.1	62.8	3.1	0.3	0.3	0.3	0.0	0.0
31°	1858.0	1182.7	61.7	2.8	0.0	0.3	0.3	0.0	0.0
32°	1826.4	1173.5	58.0	2.2	0.0	0.3	0.3	0.0	0.0
33°	1772.3	1132.2	54.4	2.0	0.0	0.3	0.0	0.0	0.0
34°	1699.8	1091.8	51.1	1.7	0.0	0.3	0.0	0.0	0.0
35°	1625.8	1058.3	46.3	1.7	0.0	0.3	0.0	0.0	0.0
36°	1564.4	997.5	43.0	1.4	0.0	0.3	0.0	0.0	0.0
37°	1489.9	945.3	38.5	1.1	0.0	0.0	0.0	0.0	0.0
38°	1439.2	871.9	35.2	1.1	0.0	0.0	0.0	0.0	0.0
39°	1370.8	810.0	31.0	0.8	0.0	0.0	0.0	0.0	0.0
40°	1305.0	745.8	26.8	0.6	0.0	0.0	0.0	0.0	0.0
42.5°	1116.1	575.3	18.4	0.3	0.0	0.0	0.0	0.0	0.0
45°	892.9	421.9	11.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	709.0	284.9	7.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	548.8	146.8	4.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	365.0	62.2	2.5	0.0	0.0	0.3	0.0	0.0	0.0
55°	165.5	32.4	1.1	0.0	0.3	0.3	0.3	0.0	0.0
57.5°	66.7	14.0	0.6	0.3	0.3	0.3	0.3	0.0	0.0
60°	20.6	3.9	0.3	0.3	0.6	0.6	0.3	0.0	0.0
62.5°	4.2	0.8	0.3	0.6	0.6	0.6	0.3	0.0	0.0
65°	1.4	0.3	0.3	0.6	0.6	0.6	0.6	0.0	0.0
67.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.3	0.0
70°	0.0	0.3	0.6	0.6	0.6	0.8	0.6	0.3	0.0
72.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
75°	0.0	0.3	0.6	0.6	0.8	0.8	0.6	0.3	0.0
77.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
80°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.0
85°	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.0	0.0
87.5°	0.0	0.3	0.6	0.6	0.6	0.6	0.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)