

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: P493167

Luminaire Tested: **LDA2B059030R35D010 2LBD1MW-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: P493167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/8/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B059030R35D010 2LBD1MW-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

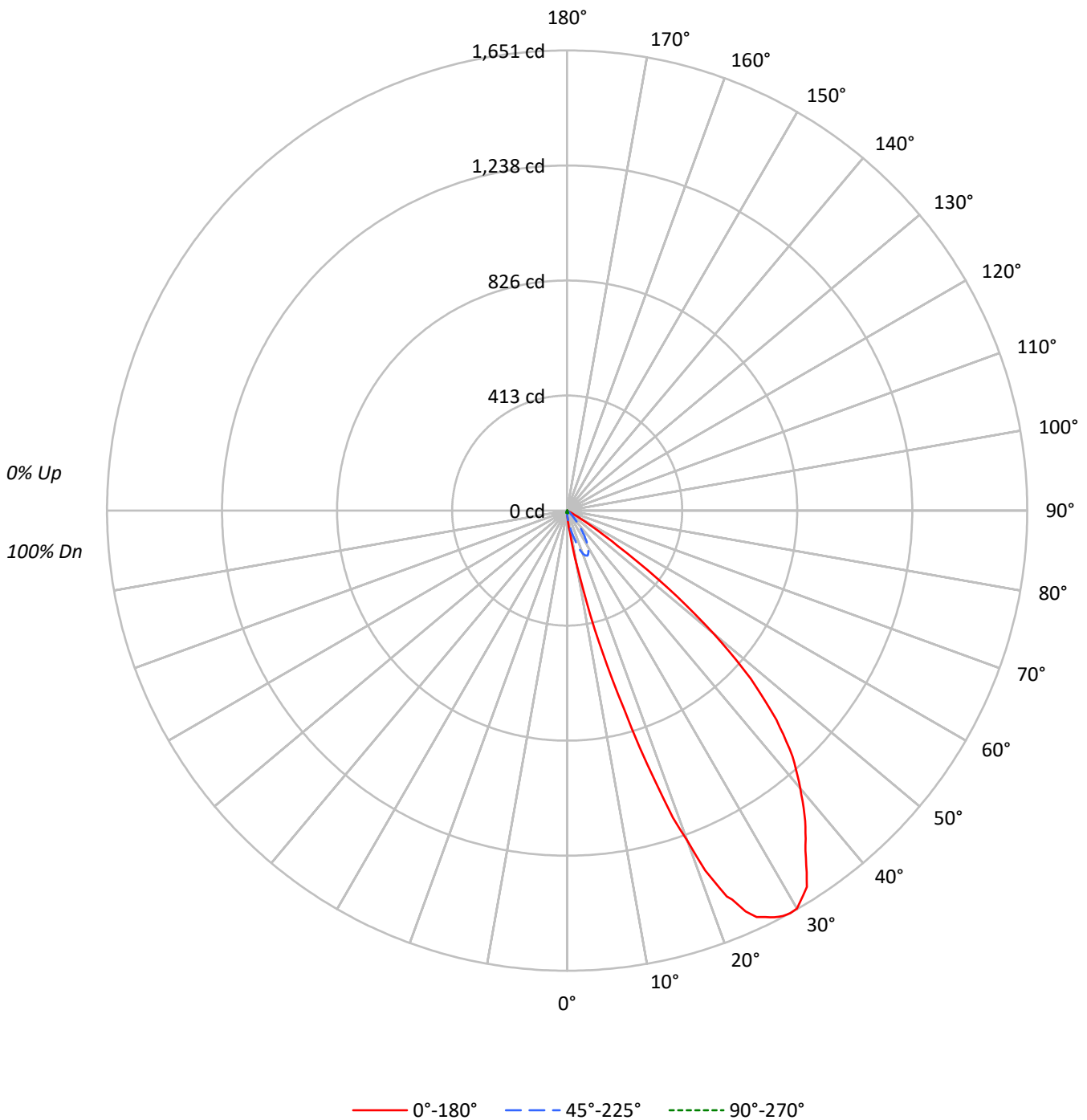
Lumens per Lamp: N/A
Luminaire Lumens: 445.6 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P493167

CATALOG NUMBER: LDA2B059030R35D010 2LBD1MW-30DEG TILT

Luminous Intensity Polar Plot





TEST NUMBER: P493167

CATALOG NUMBER: LDA2B059030R35D010 2LBD1MW-30DEG TILT

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					90			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63					63			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49					49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44					44			
8	67	54	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	39					39			
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35					35			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7450	7450	7450
5°	23277	6537	4061
10°	99443	5511	3006
15°	321374	3984	2401
20°	662319	2468	1628
25°	875719	1198	1034
30°	939354	513	513
35°	897704	361	181
40°	838087	193	0
45°	740768	0	0
50°	525992	230	0
55°	188545	258	0
60°	29108	592	0
65°	1518	700	0
70°	0	865	0
75°	0	1144	572
80°	0	1705	0
85°	0	3396	0



TEST NUMBER: P493167

CATALOG NUMBER: LDA2B059030R35D010 2LBD1MW-30DEG TILT

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.6
10°-20°	36.1	8.1
20°-30°	120.7	27.1
30°-40°	152.1	34.1
40°-50°	107.6	24.1
50°-60°	24.8	5.6
60°-70°	0.8	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°	159.5	35.8
0°-40°	311.5	69.9
0°-60°	443.9	99.6
0°-90°	445.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	445.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	47	31	13	9	8	9
15°	629	111	8	5	5	207
25°	1609	176	2	2	2	725
35°	1490	103	1	1	0	933
45°	1062	25	0	0	0	796
55°	219	1	0	0	0	248
65°	1	0	1	1	0	5
75°	0	1	1	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P493167

CATALOG NUMBER: LDA2B059030R35D010 2LBD1MW-30DEG TILT

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
1°	18.8	18.2	17.3	15.7	14.1	13.5	13.5	12.5	12.5
2°	22.6	21.6	19.8	16.6	14.1	12.5	11.9	11.3	11.0
3°	29.2	26.7	22.6	17.9	13.8	11.9	11.6	10.0	10.0
4°	36.4	33.9	26.0	18.8	13.5	11.3	10.0	9.4	9.1
5°	47.0	41.4	30.7	19.8	13.2	10.7	9.4	8.5	8.2
6°	60.8	53.0	35.1	20.7	12.9	10.0	8.8	7.8	7.5
7°	76.5	65.9	40.5	21.6	12.2	9.4	8.2	7.5	7.2
8°	109.8	84.7	46.7	22.3	11.9	8.8	7.8	6.9	6.6
9°	146.8	109.5	53.6	23.2	11.3	8.5	7.2	6.6	6.3
10°	198.5	143.3	61.5	23.8	11.0	7.8	6.6	6.3	6.0
11°	250.0	185.4	71.2	24.2	10.4	6.9	6.6	6.3	6.0
12°	334.7	225.5	79.7	24.2	9.7	6.6	6.0	5.6	5.3
13°	435.0	294.5	91.9	24.5	8.8	6.3	5.6	5.3	5.3
14°	523.5	356.3	100.1	24.5	8.5	5.6	5.3	5.3	5.0
15°	629.2	416.5	111.0	24.2	7.8	5.3	5.3	5.0	4.7
16°	739.9	506.9	125.8	23.5	7.2	4.7	5.0	4.4	4.1
17°	886.7	581.5	137.1	22.9	6.6	4.4	4.4	4.4	4.1
18°	1020.9	672.2	146.2	22.3	6.0	4.4	4.1	4.1	3.8
19°	1164.9	744.9	155.3	21.3	5.3	3.8	3.8	3.8	3.5
20°	1261.5	834.3	165.3	20.4	4.7	3.5	3.8	3.5	3.1
21°	1383.8	914.3	169.1	19.4	4.1	3.1	3.1	3.1	2.8
22.5°	1498.3	1020.6	175.0	17.6	3.5	2.5	2.8	2.5	2.5
23°	1515.9	1043.2	175.0	16.9	3.1	2.5	2.8	2.5	2.5
24°	1574.2	1105.0	177.2	15.7	2.5	2.2	2.5	2.2	2.2
25°	1608.7	1153.9	175.6	14.4	2.2	2.2	2.2	2.2	1.9
26°	1622.8	1167.4	171.9	13.5	1.9	1.9	2.2	1.9	1.6
27°	1637.6	1198.2	167.2	12.2	1.6	1.9	1.9	1.9	1.6
28°	1647.9	1201.9	162.5	11.3	1.3	1.6	1.9	1.6	1.6
29°	1651.4	1206.9	156.8	10.0	0.9	1.3	1.6	1.3	1.3
30°	1648.9	1206.0	148.7	9.1	0.9	1.3	1.3	1.3	0.9
32.5°	1600.9	1179.0	126.1	6.6	0.6	0.9	0.9	0.9	0.6
35°	1490.5	1116.9	102.9	4.4	0.6	0.6	0.6	0.6	0.3
37.5°	1403.3	1024.1	78.7	2.5	0.3	0.6	0.6	0.3	0.0
40°	1301.3	889.5	56.8	1.6	0.3	0.3	0.3	0.0	0.0
42.5°	1197.8	752.5	38.6	0.6	0.0	0.3	0.3	0.0	0.0
45°	1061.7	576.2	25.4	0.3	0.0	0.3	0.0	0.0	0.0
47.5°	893.0	418.4	17.3	0.0	0.0	0.3	0.0	0.0	0.0
50°	685.3	234.3	9.7	0.0	0.3	0.3	0.3	0.0	0.0
52.5°	451.7	117.0	3.8	0.0	0.3	0.3	0.3	0.0	0.0
55°	219.2	62.7	1.3	0.3	0.3	0.6	0.3	0.0	0.0
57.5°	103.5	24.5	0.3	0.3	0.6	0.6	0.3	0.0	0.0
60°	29.5	5.0	0.3	0.3	0.6	0.6	0.3	0.3	0.0
62.5°	4.1	0.6	0.3	0.6	0.6	0.6	0.6	0.3	0.0
65°	1.3	0.3	0.3	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°
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	0.3	0.6	0.6	0.6	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	0.6	0.6	0.6	0.3	0.3
77.5°	0.0	0.3	0.6	0.6	0.9	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
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	0.3	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)