

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: P493085

Luminaire Tested: **LDA2B059030R20D010 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: P493085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B059030R20D010 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**

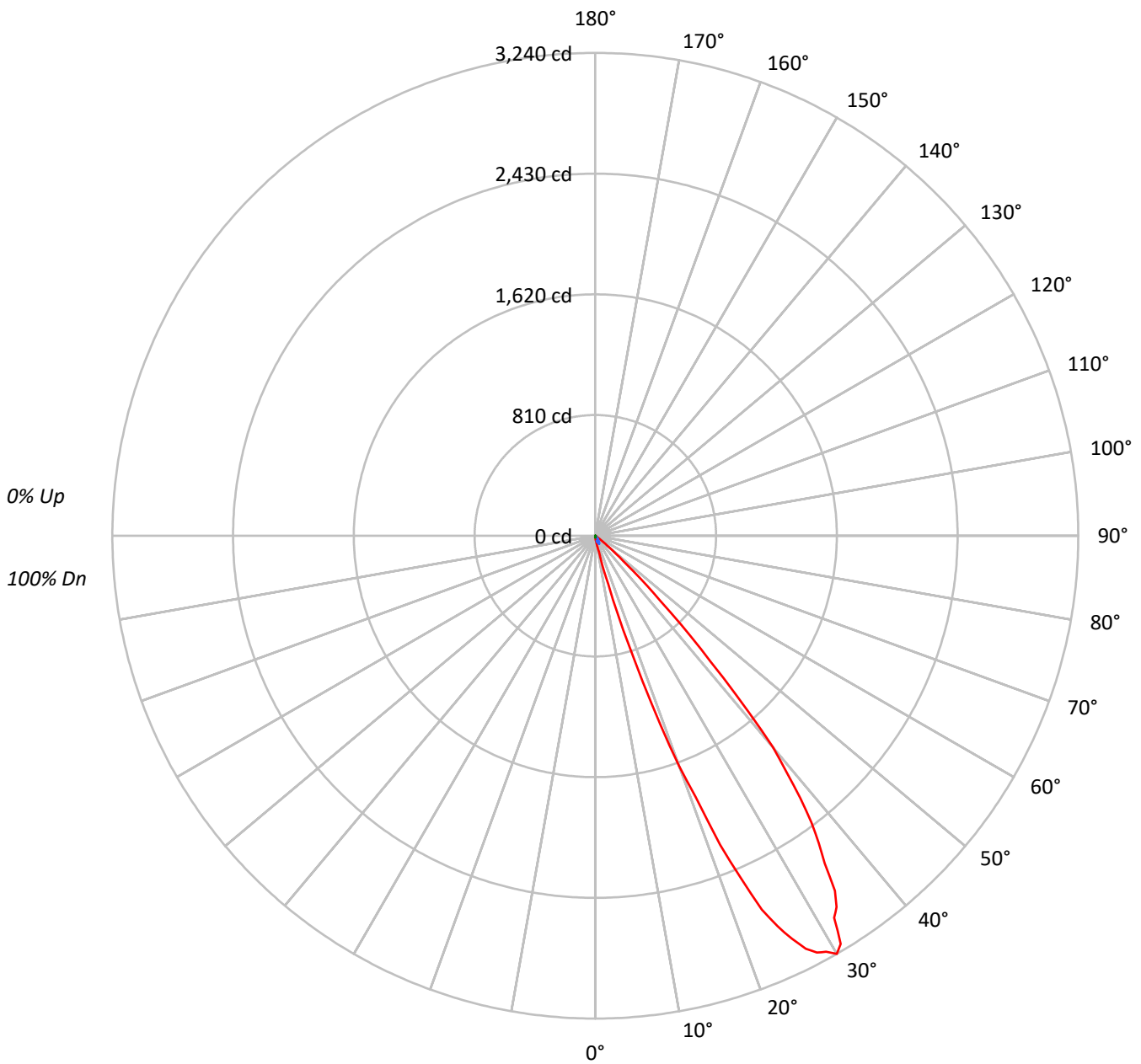
Lumens per Lamp: N/A  
Luminaire Lumens: 409.0 lumens  
Efficiency: N/A  
Efficacy: 58.4 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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: P493085

CATALOG NUMBER: LDA2B059030R20D010 2LBD1MW-30DEG TILT

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°



TEST NUMBER: P493085

CATALOG NUMBER: LDA2B059030R20D010 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	6512	6512	6512
5°	12431	5745	4210
10°	29708	5010	2805
15°	172996	3984	1124
20°	863088	2468	315
25°	1573703	871	0
30°	1845780	0	0
35°	1615565	0	0
40°	1193016	0	0
45°	430004	0	0
50°	89571	0	0
55°	20472	258	0
60°	6512	296	0
65°	1518	700	0
70°	0	865	433
75°	0	1144	0
80°	0	1705	0
85°	0	3396	0



TEST NUMBER: P493085

CATALOG NUMBER: LDA2B059030R20D010 2LBD1MW-30DEG TILT

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.5	0.4
10°-20°	22.5	5.5
20°-30°	151.5	37.0
30°-40°	177.0	43.3
40°-50°	51.6	12.6
50°-60°	3.4	0.8
60°-70°	0.6	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°	175.5	42.9
0°-40°	352.5	86.2
0°-60°	407.5	99.6
0°-90°	409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	409.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	25	18	12	10	8	3
15°	339	38	8	4	2	177
25°	2891	59	2	0	0	1280
35°	2682	32	0	0	0	1648
45°	616	7	0	0	0	568
55°	24	1	0	0	0	30
65°	1	1	1	1	0	2
75°	0	1	1	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P493085

CATALOG NUMBER: LDA2B059030R20D010 2LBD1MW-30DEG TILT

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
2.5°	16.9	16.9	15.1	13.5	12.2	11.6	11.3	10.7	10.4
5°	25.1	22.0	18.2	14.1	11.6	10.7	9.7	8.8	8.5
7.5°	36.7	32.0	22.0	14.4	11.0	9.4	8.5	7.5	6.9
10°	59.3	46.1	27.0	14.4	10.0	8.2	6.9	6.0	5.6
12.5°	109.5	70.6	32.3	14.1	9.1	6.9	5.3	4.7	3.8
15°	338.7	146.2	38.3	13.5	7.8	5.3	4.1	2.5	2.2
17.5°	876.0	341.3	42.7	11.9	6.3	3.8	1.9	1.6	1.6
20°	1643.9	618.8	48.9	10.4	4.7	2.5	1.3	0.9	0.6
21°	1875.3	757.2	52.1	9.7	4.1	1.6	0.9	0.3	0.3
22°	2235.1	908.0	54.6	9.1	3.5	0.9	0.6	0.3	0.0
23°	2491.4	1004.3	57.1	8.2	2.5	0.9	0.3	0.0	0.0
24°	2747.6	1127.0	58.7	7.5	2.2	0.6	0.3	0.0	0.0
25°	2890.9	1229.2	59.3	6.9	1.6	0.3	0.0	0.0	0.0
26°	3008.9	1297.6	59.6	6.3	0.9	0.0	0.0	0.0	0.0
27°	3109.9	1376.9	59.0	5.6	0.9	0.0	0.0	0.0	0.0
28°	3167.3	1390.1	58.0	5.0	0.3	0.0	0.0	0.0	0.0
29°	3192.1	1374.1	55.2	4.4	0.3	0.0	0.0	0.0	0.0
30°	3240.0	1359.1	52.4	4.1	0.0	0.0	0.0	0.0	0.0
31°	3195.8	1309.2	48.9	3.5	0.0	0.0	0.0	0.0	0.0
32°	3022.7	1267.2	44.9	2.8	0.0	0.0	0.0	0.0	0.0
33°	2970.9	1180.9	40.5	2.5	0.0	0.0	0.0	0.0	0.0
34°	2873.4	1052.6	36.7	2.2	0.0	0.0	0.0	0.0	0.0
35°	2682.4	946.6	32.0	1.9	0.0	0.0	0.0	0.0	0.0
36°	2549.1	825.5	27.9	1.6	0.0	0.0	0.0	0.0	0.0
37°	2409.5	719.8	24.8	1.3	0.0	0.0	0.0	0.0	0.0
38°	2236.0	608.8	21.0	0.9	0.0	0.0	0.0	0.0	0.0
39°	2034.0	503.1	17.9	0.9	0.0	0.0	0.0	0.0	0.0
40°	1852.4	405.6	15.4	0.6	0.0	0.0	0.0	0.0	0.0
42.5°	1143.3	231.5	9.1	0.6	0.0	0.0	0.0	0.0	0.0
45°	616.3	140.5	6.6	0.3	0.0	0.0	0.0	0.0	0.0
47.5°	283.9	65.6	4.7	0.3	0.0	0.0	0.0	0.0	0.0
50°	116.7	29.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	42.0	16.3	2.2	0.0	0.0	0.3	0.0	0.0	0.0
55°	23.8	9.4	1.3	0.3	0.3	0.3	0.3	0.0	0.0
57.5°	11.3	5.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0
60°	6.6	2.8	0.3	0.3	0.3	0.6	0.3	0.0	0.0
62.5°	3.1	0.9	0.3	0.6	0.6	0.6	0.6	0.3	0.0
65°	1.3	0.3	0.6	0.6	0.6	0.9	0.6	0.3	0.0
67.5°	0.3	0.3	0.6	0.6	0.6	0.9	0.6	0.3	0.3
70°	0.0	0.3	0.6	0.6	0.6	0.9	0.6	0.3	0.3
72.5°	0.0	0.3	0.6	0.6	0.6	0.9	0.6	0.3	0.3
75°	0.0	0.3	0.6	0.6	0.6	0.6	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



TEST NUMBER: P493085

CATALOG NUMBER: LDA2B059030R20D010 2LBD1MW-30DEG TILT

**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	0.3	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)