

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: P492641

Luminaire Tested: **LDA2B059024R20D010 2LBD1B-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: P492641  
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: LDA2B059024R20D010 2LBD1B-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**

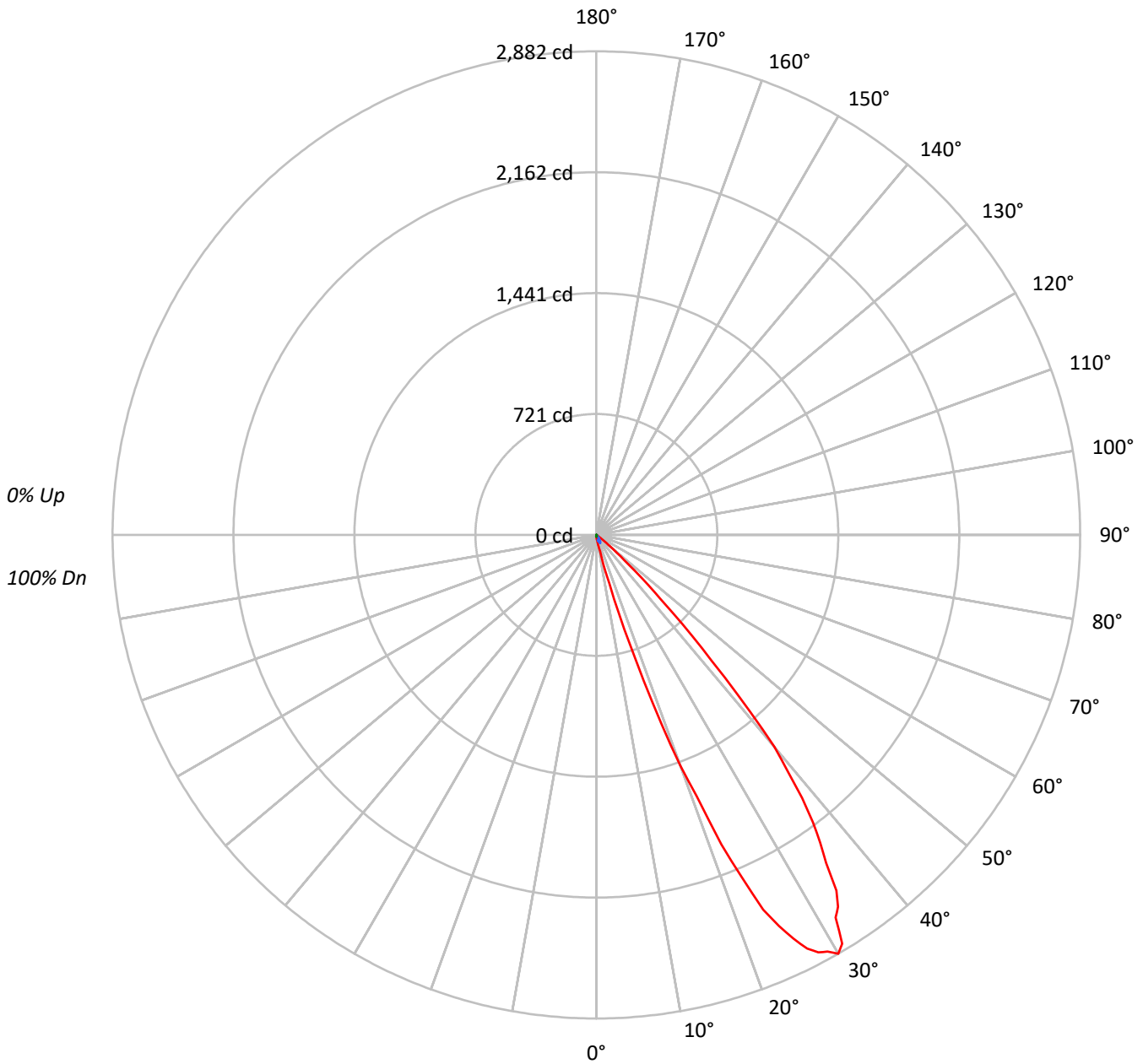
Lumens per Lamp: N/A  
Luminaire Lumens: 364.0 lumens  
Efficiency: N/A  
Efficacy: 52.0 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.57 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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: P492641

CATALOG NUMBER: LDA2B059024R20D010 2LBD1B-30DEG TILT

### Luminous Intensity Polar Plot



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



TEST NUMBER: P492641

CATALOG NUMBER: LDA2B059024R20D010 2LBD1B-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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	61	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43					43			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

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

	0°	90°	180°
0°	5772	5772	5772
5°	11044	5101	3714
10°	26401	4459	2505
15°	153894	3575	1022
20°	767744	2205	315
25°	1399942	762	0
30°	1641946	0	0
35°	1437109	0	0
40°	1061310	0	0
45°	382559	0	0
50°	79670	0	0
55°	18235	258	0
60°	5822	296	0
65°	1284	700	0
70°	0	865	433
75°	0	1144	0
80°	0	1705	0
85°	0	3396	0



TEST NUMBER: P492641

CATALOG NUMBER: LDA2B059024R20D010 2LBD1B-30DEG TILT

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.3	0.4
10°-20°	20.0	5.5
20°-30°	134.8	37.0
30°-40°	157.4	43.3
40°-50°	45.9	12.6
50°-60°	3.1	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°	156.1	42.9
0°-40°	313.5	86.1
0°-60°	362.5	99.6
0°-90°	364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	364.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	22	16	10	9	8	3
15°	301	34	7	4	2	157
25°	2572	53	1	0	0	1139
35°	2386	28	0	0	0	1466
45°	548	6	0	0	0	505
55°	21	1	0	0	0	27
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: P492641

CATALOG NUMBER: LDA2B059024R20D010 2LBD1B-30DEG TILT

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
2.5°	15.1	15.1	13.4	12.0	10.9	10.3	10.0	9.5	9.2
5°	22.3	19.5	16.2	12.6	10.3	9.5	8.6	7.8	7.5
7.5°	32.6	28.5	19.5	12.8	9.8	8.4	7.5	6.7	6.1
10°	52.7	41.0	24.0	12.8	8.9	7.3	6.1	5.3	5.0
12.5°	97.4	62.8	28.7	12.6	8.1	6.1	4.7	4.2	3.3
15°	301.3	130.0	34.0	12.0	7.0	4.7	3.6	2.2	2.0
17.5°	779.3	303.6	37.9	10.6	5.6	3.3	1.7	1.4	1.4
20°	1462.3	550.5	43.5	9.2	4.2	2.2	1.1	0.8	0.6
21°	1668.2	673.5	46.3	8.6	3.6	1.4	0.8	0.3	0.3
22°	1988.3	807.8	48.5	8.1	3.1	0.8	0.6	0.3	0.0
23°	2216.2	893.4	50.8	7.3	2.2	0.8	0.3	0.0	0.0
24°	2444.2	1002.5	52.2	6.7	2.0	0.6	0.3	0.0	0.0
25°	2571.7	1093.5	52.7	6.1	1.4	0.3	0.0	0.0	0.0
26°	2676.6	1154.3	53.0	5.6	0.8	0.0	0.0	0.0	0.0
27°	2766.4	1224.9	52.5	5.0	0.8	0.0	0.0	0.0	0.0
28°	2817.5	1236.6	51.6	4.5	0.3	0.0	0.0	0.0	0.0
29°	2839.5	1222.4	49.1	3.9	0.3	0.0	0.0	0.0	0.0
30°	2882.2	1209.0	46.6	3.6	0.0	0.0	0.0	0.0	0.0
31°	2842.9	1164.6	43.5	3.1	0.0	0.0	0.0	0.0	0.0
32°	2688.9	1127.2	39.9	2.5	0.0	0.0	0.0	0.0	0.0
33°	2642.8	1050.5	36.0	2.2	0.0	0.0	0.0	0.0	0.0
34°	2556.1	936.4	32.6	2.0	0.0	0.0	0.0	0.0	0.0
35°	2386.1	842.1	28.5	1.7	0.0	0.0	0.0	0.0	0.0
36°	2267.6	734.4	24.8	1.4	0.0	0.0	0.0	0.0	0.0
37°	2143.4	640.3	22.0	1.1	0.0	0.0	0.0	0.0	0.0
38°	1989.1	541.6	18.7	0.8	0.0	0.0	0.0	0.0	0.0
39°	1809.4	447.5	15.9	0.8	0.0	0.0	0.0	0.0	0.0
40°	1647.9	360.8	13.7	0.6	0.0	0.0	0.0	0.0	0.0
42.5°	1017.0	205.9	8.1	0.6	0.0	0.0	0.0	0.0	0.0
45°	548.3	125.0	5.9	0.3	0.0	0.0	0.0	0.0	0.0
47.5°	252.5	58.3	4.2	0.3	0.0	0.0	0.0	0.0	0.0
50°	103.8	25.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	37.4	14.5	2.0	0.0	0.0	0.3	0.0	0.0	0.0
55°	21.2	8.4	1.1	0.3	0.3	0.3	0.3	0.0	0.0
57.5°	10.0	4.7	0.3	0.3	0.3	0.3	0.3	0.0	0.0
60°	5.9	2.5	0.3	0.3	0.3	0.6	0.3	0.0	0.0
62.5°	2.8	0.8	0.3	0.6	0.6	0.6	0.6	0.3	0.0
65°	1.1	0.3	0.6	0.6	0.6	0.8	0.6	0.3	0.0
67.5°	0.3	0.3	0.6	0.6	0.6	0.8	0.6	0.3	0.3
70°	0.0	0.3	0.6	0.6	0.6	0.8	0.6	0.3	0.3
72.5°	0.0	0.3	0.6	0.6	0.6	0.8	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: P492641

CATALOG NUMBER: LDA2B059024R20D010 2LBD1B-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)