

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: P497417

Luminaire Tested: **LDA2B158030R20D010 2LBDC1MW-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: P497417  
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: LDA2B158030R20D010 2LBDC1MW-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

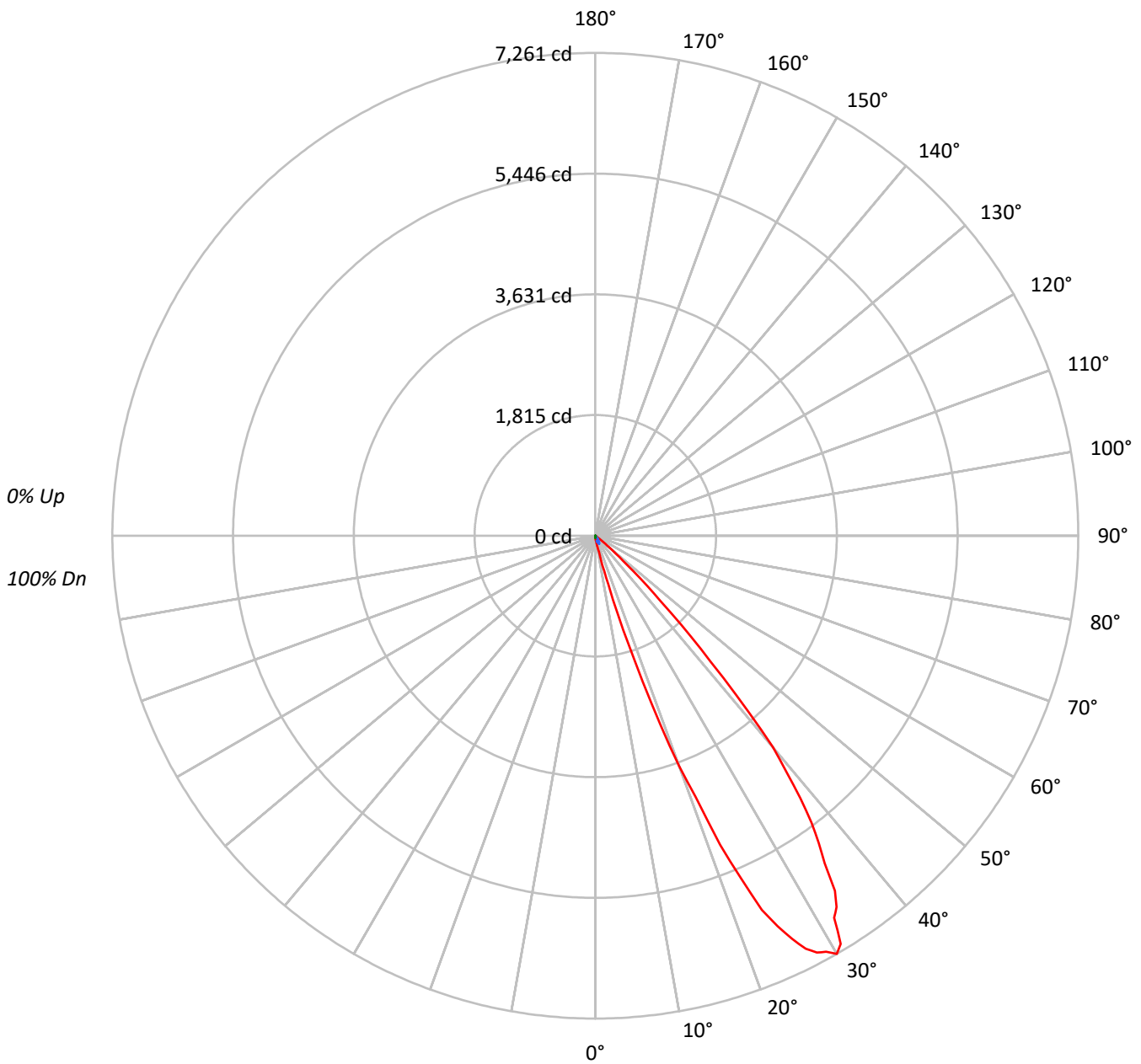
Lumens per Lamp: N/A  
Luminaire Lumens: 916.8 lumens  
Efficiency: N/A  
Efficacy: 65.0 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
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: P497417

CATALOG NUMBER: LDA2B158030R20D010 2LBDC1MW-30DEG TILT

### Luminous Intensity Polar Plot



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



TEST NUMBER: P497417

CATALOG NUMBER: LDA2B158030R20D010 2LBDC1MW-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	73	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	62	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°	14554	14554	14554
5°	27833	12876	9410
10°	66579	11272	6362
15°	387773	8989	2503
20°	1934243	5513	735
25°	3526883	1905	0
30°	4136655	0	0
35°	3620627	0	0
40°	2673724	0	0
45°	963759	0	0
50°	200710	0	0
55°	45932	602	0
60°	14604	691	0
65°	3269	1634	0
70°	0	2019	1010
75°	0	2669	0
80°	0	3978	0
85°	0	7925	0



TEST NUMBER: P497417

CATALOG NUMBER: LDA2B158030R20D010 2LBDC1MW-30DEG TILT

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.3	0.4
10°-20°	50.4	5.5
20°-30°	339.5	37.0
30°-40°	396.7	43.3
40°-50°	115.7	12.6
50°-60°	7.7	0.8
60°-70°	1.4	0.2
70°-80°	1.2	0.1
80°-90°	1.0	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°	393.2	42.9
0°-40°	789.9	86.2
0°-60°	913.3	99.6
0°-90°	916.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	916.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	56	41	26	22	19	8
15°	759	86	18	9	5	396
25°	6479	133	4	0	0	2869
35°	6012	72	0	0	0	3693
45°	1381	15	0	0	0	1273
55°	53	3	1	1	0	68
65°	3	1	1	1	0	4
75°	0	1	1	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P497417

CATALOG NUMBER: LDA2B158030R20D010 2LBDC1MW-30DEG TILT

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
2.5°	38.0	38.0	33.7	30.2	27.4	26.0	25.3	23.9	23.2
5°	56.2	49.2	40.8	31.6	26.0	23.9	21.8	19.7	19.0
7.5°	82.2	71.7	49.2	32.3	24.6	21.1	19.0	16.9	15.5
10°	132.9	103.3	60.5	32.3	22.5	18.3	15.5	13.4	12.7
12.5°	245.3	158.2	72.4	31.6	20.4	15.5	11.9	10.5	8.4
15°	759.2	327.6	85.8	30.2	17.6	11.9	9.1	5.6	4.9
17.5°	1963.3	764.8	95.6	26.7	14.1	8.4	4.2	3.5	3.5
20°	3684.1	1386.9	109.7	23.2	10.5	5.6	2.8	2.1	1.4
21°	4202.8	1696.9	116.7	21.8	9.1	3.5	2.1	0.7	0.7
22°	5009.1	2035.0	122.3	20.4	7.7	2.1	1.4	0.7	0.0
23°	5583.4	2250.8	127.9	18.3	5.6	2.1	0.7	0.0	0.0
24°	6157.7	2525.6	131.4	16.9	4.9	1.4	0.7	0.0	0.0
25°	6478.9	2754.8	132.9	15.5	3.5	0.7	0.0	0.0	0.0
26°	6743.2	2908.0	133.6	14.1	2.1	0.0	0.0	0.0	0.0
27°	6969.6	3085.9	132.2	12.7	2.1	0.0	0.0	0.0	0.0
28°	7098.2	3115.4	130.0	11.2	0.7	0.0	0.0	0.0	0.0
29°	7153.7	3079.5	123.7	9.8	0.7	0.0	0.0	0.0	0.0
30°	7261.3	3045.8	117.4	9.1	0.0	0.0	0.0	0.0	0.0
31°	7162.2	2934.0	109.7	7.7	0.0	0.0	0.0	0.0	0.0
32°	6774.1	2839.8	100.5	6.3	0.0	0.0	0.0	0.0	0.0
33°	6658.2	2646.5	90.7	5.6	0.0	0.0	0.0	0.0	0.0
34°	6439.6	2359.0	82.2	4.9	0.0	0.0	0.0	0.0	0.0
35°	6011.5	2121.4	71.7	4.2	0.0	0.0	0.0	0.0	0.0
36°	5712.7	1850.1	62.6	3.5	0.0	0.0	0.0	0.0	0.0
37°	5399.9	1613.2	55.5	2.8	0.0	0.0	0.0	0.0	0.0
38°	5011.2	1364.4	47.1	2.1	0.0	0.0	0.0	0.0	0.0
39°	4558.5	1127.5	40.1	2.1	0.0	0.0	0.0	0.0	0.0
40°	4151.5	908.9	34.4	1.4	0.0	0.0	0.0	0.0	0.0
42.5°	2562.2	518.8	20.4	1.4	0.0	0.0	0.0	0.0	0.0
45°	1381.3	314.9	14.8	0.7	0.0	0.0	0.0	0.0	0.0
47.5°	636.2	146.9	10.5	0.7	0.0	0.0	0.0	0.0	0.0
50°	261.5	65.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	94.2	36.6	4.9	0.0	0.0	0.7	0.0	0.0	0.0
55°	53.4	21.1	2.8	0.7	0.7	0.7	0.7	0.0	0.0
57.5°	25.3	11.9	0.7	0.7	0.7	0.7	0.7	0.0	0.0
60°	14.8	6.3	0.7	0.7	0.7	1.4	0.7	0.0	0.0
62.5°	7.0	2.1	0.7	1.4	1.4	1.4	1.4	0.7	0.0
65°	2.8	0.7	1.4	1.4	1.4	2.1	1.4	0.7	0.0
67.5°	0.7	0.7	1.4	1.4	1.4	2.1	1.4	0.7	0.7
70°	0.0	0.7	1.4	1.4	1.4	2.1	1.4	0.7	0.7
72.5°	0.0	0.7	1.4	1.4	1.4	2.1	1.4	0.7	0.7
75°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
77.5°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
80°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0



TEST NUMBER: P497417

CATALOG NUMBER: LDA2B158030R20D010 2LBDC1MW-30DEG TILT

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
85°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
87.5°	0.0	0.7	1.4	1.4	1.4	1.4	0.7	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)