

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: P497701

Luminaire Tested: **LDA2B158035R35D010 2LBD1MMS-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: P497701  
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: LDA2B158035R35D010 2LBD1MMS-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

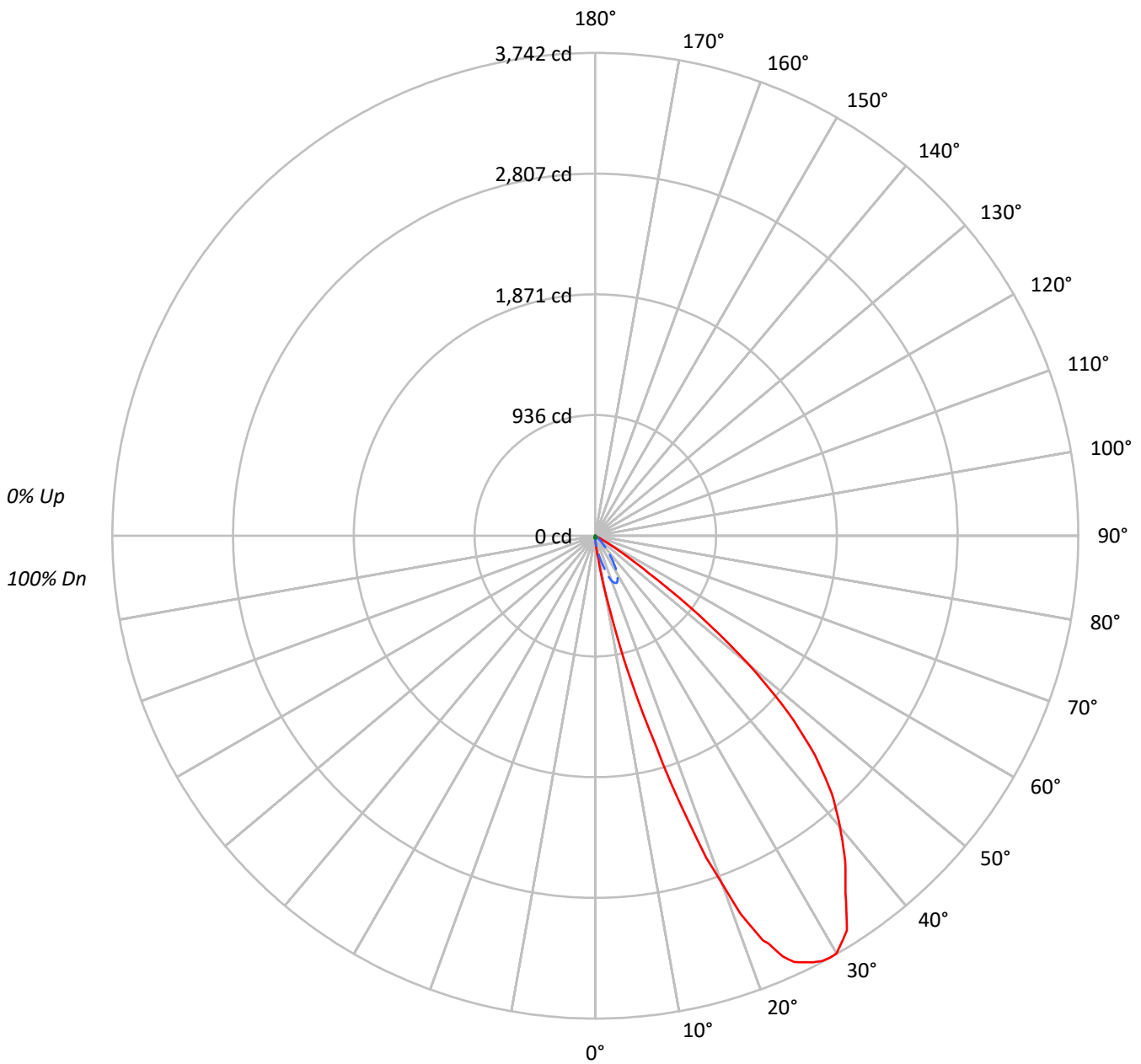
Lumens per Lamp: N/A  
Luminaire Lumens: 1009.7 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P497701

CATALOG NUMBER: LDA2B158035R35D010 2LBD1MMS-30DEG TILT

### Luminous Intensity Polar Plot



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



TEST NUMBER: P497701

CATALOG NUMBER: LDA2B158035R35D010 2LBD1MMS-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	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	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	54	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	39
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31

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

	0°	90°	180°
0°	16824	16824	16824
5°	52793	14808	9162
10°	225388	12474	6763
15°	728199	9092	5465
20°	1500835	5618	3728
25°	1984372	2722	2341
30°	2128515	1196	1196
35°	2034152	843	422
40°	1899139	451	0
45°	1678572	0	0
50°	1191905	537	0
55°	427323	602	0
60°	65913	1381	0
65°	3269	1634	0
70°	0	2019	0
75°	0	2669	1334
80°	0	3978	0
85°	0	7925	0



TEST NUMBER: P497701

CATALOG NUMBER: LDA2B158035R35D010 2LBD1MMS-30DEG TILT

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.0	0.6
10°-20°	81.7	8.1
20°-30°	273.6	27.1
30°-40°	344.6	34.1
40°-50°	243.8	24.1
50°-60°	56.2	5.6
60°-70°	1.8	0.2
70°-80°	1.1	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°	361.3	35.8
0°-40°	705.9	69.9
0°-60°	1005.8	99.6
0°-90°	1009.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	107	70	30	21	18	20
15°	1426	252	18	12	11	470
25°	3645	398	5	5	4	1643
35°	3377	233	1	1	1	2114
45°	2406	58	0	0	0	1804
55°	497	3	1	1	0	562
65°	3	1	1	1	0	11
75°	0	1	1	1	1	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P497701

CATALOG NUMBER: LDA2B158035R35D010 2LBD1MMS-30DEG TILT

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
1°	42.6	41.2	39.1	35.5	32.0	30.6	30.6	28.4	28.4
2°	51.2	49.0	44.8	37.7	32.0	28.4	27.0	25.6	24.9
3°	66.1	60.4	51.2	40.5	31.3	27.0	26.3	22.7	22.7
4°	82.4	76.8	59.0	42.6	30.6	25.6	22.7	21.3	20.6
5°	106.6	93.8	69.7	44.8	29.9	24.2	21.3	19.2	18.5
6°	137.9	120.1	79.6	46.9	29.1	22.7	19.9	17.8	17.1
7°	173.4	149.3	91.7	49.0	27.7	21.3	18.5	17.1	16.3
8°	248.8	191.9	105.9	50.5	27.0	19.9	17.8	15.6	14.9
9°	332.6	248.0	121.5	52.6	25.6	19.2	16.3	14.9	14.2
10°	449.9	324.8	139.3	54.0	24.9	17.8	14.9	14.2	13.5
11°	566.5	420.0	161.3	54.7	23.5	15.6	14.9	14.2	13.5
12°	758.3	511.0	180.5	54.7	22.0	14.9	13.5	12.8	12.1
13°	985.8	667.4	208.2	55.4	19.9	14.2	12.8	12.1	12.1
14°	1186.2	807.4	226.7	55.4	19.2	12.8	12.1	12.1	11.4
15°	1425.7	943.8	251.6	54.7	17.8	12.1	12.1	11.4	10.7
16°	1676.6	1148.5	285.0	53.3	16.3	10.7	11.4	10.0	9.2
17°	2009.2	1317.7	310.6	51.9	14.9	10.0	10.0	10.0	9.2
18°	2313.4	1523.1	331.2	50.5	13.5	10.0	9.2	9.2	8.5
19°	2639.6	1688.0	351.8	48.3	12.1	8.5	8.5	8.5	7.8
20°	2858.6	1890.5	374.6	46.2	10.7	7.8	8.5	7.8	7.1
21°	3135.7	2071.8	383.1	44.1	9.2	7.1	7.1	7.1	6.4
22.5°	3395.2	2312.7	396.6	39.8	7.8	5.7	6.4	5.7	5.7
23°	3435.0	2363.9	396.6	38.4	7.1	5.7	6.4	5.7	5.7
24°	3567.2	2503.9	401.6	35.5	5.7	5.0	5.7	5.0	5.0
25°	3645.3	2614.8	398.0	32.7	5.0	5.0	5.0	5.0	4.3
26°	3677.3	2645.3	389.5	30.6	4.3	4.3	5.0	4.3	3.6
27°	3710.7	2715.0	378.8	27.7	3.6	4.3	4.3	4.3	3.6
28°	3734.2	2723.5	368.2	25.6	2.8	3.6	4.3	3.6	3.6
29°	3742.0	2734.9	355.4	22.7	2.1	2.8	3.6	2.8	2.8
30°	3736.3	2732.8	336.9	20.6	2.1	2.8	2.8	2.8	2.1
32.5°	3627.6	2671.6	285.7	14.9	1.4	2.1	2.1	2.1	1.4
35°	3377.4	2530.9	233.1	10.0	1.4	1.4	1.4	1.4	0.7
37.5°	3179.8	2320.5	178.4	5.7	0.7	1.4	1.4	0.7	0.0
40°	2948.8	2015.6	128.6	3.6	0.7	0.7	0.7	0.0	0.0
42.5°	2714.3	1705.0	87.4	1.4	0.0	0.7	0.7	0.0	0.0
45°	2405.8	1305.6	57.6	0.7	0.0	0.7	0.0	0.0	0.0
47.5°	2023.4	948.1	39.1	0.0	0.0	0.7	0.0	0.0	0.0
50°	1552.9	530.9	22.0	0.0	0.7	0.7	0.7	0.0	0.0
52.5°	1023.5	265.1	8.5	0.0	0.7	0.7	0.7	0.0	0.0
55°	496.8	142.1	2.8	0.7	0.7	1.4	0.7	0.0	0.0
57.5°	234.5	55.4	0.7	0.7	1.4	1.4	0.7	0.0	0.0
60°	66.8	11.4	0.7	0.7	1.4	1.4	0.7	0.7	0.0
62.5°	9.2	1.4	0.7	1.4	1.4	1.4	1.4	0.7	0.0
65°	2.8	0.7	0.7	1.4	1.4	1.4	1.4	0.7	0.0



TEST NUMBER: P497701

CATALOG NUMBER: LDA2B158035R35D010 2LBD1MMS-30DEG TILT

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	0.7	0.0
70°	0.0	0.7	0.7	1.4	1.4	1.4	1.4	0.7	0.0
72.5°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
75°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.7
77.5°	0.0	0.7	1.4	1.4	2.1	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
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)