

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: P497512

Luminaire Tested: **LDA2B158030R35D010 2LBDLC1MMS-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: P497512
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: LDA2B158030R35D010 2LBDLC1MMS-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

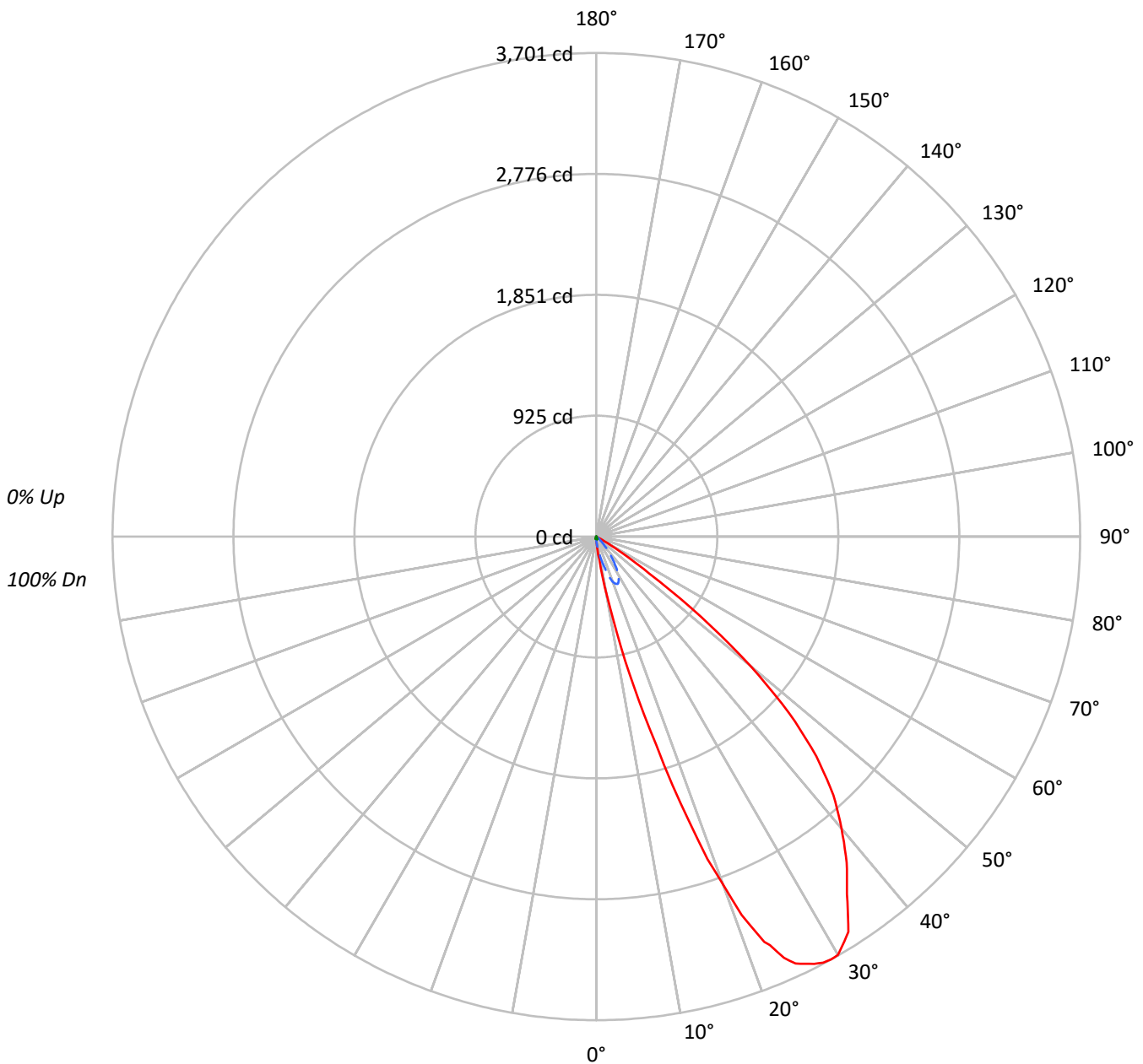
Lumens per Lamp: N/A
Luminaire Lumens: 998.7 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): 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: P497512

CATALOG NUMBER: LDA2B158030R35D010 2LBDLC1MMS-30DEG TILT

Luminous Intensity Polar Plot



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



TEST NUMBER: P497512

CATALOG NUMBER: LDA2B158030R35D010 2LBDLC1MMS-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	66	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	46	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°	16626	16626	16626
5°	52199	14610	9063
10°	222933	12324	6713
15°	720231	8989	5363
20°	1484350	5513	3675
25°	1962597	2667	2286
30°	2105157	1196	1196
35°	2011808	843	422
40°	1878337	451	0
45°	1660152	0	0
50°	1178857	537	0
55°	422592	602	0
60°	65222	1381	0
65°	3269	1634	0
70°	0	2019	0
75°	0	2669	1334
80°	0	3978	0
85°	0	7925	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.6
10°-20°	80.8	8.1
20°-30°	270.6	27.1
30°-40°	340.8	34.1
40°-50°	241.1	24.1
50°-60°	55.6	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°	357.3	35.8
0°-40°	698.1	69.9
0°-60°	994.8	99.6
0°-90°	998.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	998.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	105	69	30	21	18	20
15°	1410	249	18	12	10	465
25°	3605	394	5	5	4	1625
35°	3340	231	1	1	1	2091
45°	2379	57	0	0	0	1784
55°	491	3	1	1	0	556
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
1°	42.2	40.8	38.7	35.1	31.6	30.2	30.2	28.1	28.1
2°	50.6	48.5	44.3	37.3	31.6	28.1	26.7	25.3	24.6
3°	65.4	59.7	50.6	40.1	30.9	26.7	26.0	22.5	22.5
4°	81.5	75.9	58.3	42.2	30.2	25.3	22.5	21.1	20.4
5°	105.4	92.8	68.9	44.3	29.5	23.9	21.1	19.0	18.3
6°	136.4	118.8	78.7	46.4	28.8	22.5	19.7	17.6	16.9
7°	171.5	147.6	90.7	48.5	27.4	21.1	18.3	16.9	16.2
8°	246.0	189.8	104.7	49.9	26.7	19.7	17.6	15.5	14.8
9°	329.0	245.3	120.2	52.0	25.3	19.0	16.2	14.8	14.1
10°	445.0	321.2	137.8	53.4	24.6	17.6	14.8	14.1	13.4
11°	560.2	415.4	159.6	54.1	23.2	15.5	14.8	14.1	13.4
12°	750.0	505.4	178.5	54.1	21.8	14.8	13.4	12.7	11.9
13°	975.0	660.1	206.0	54.8	19.7	14.1	12.7	11.9	11.9
14°	1173.2	798.5	224.2	54.8	19.0	12.7	11.9	11.9	11.2
15°	1410.1	933.5	248.8	54.1	17.6	11.9	11.9	11.2	10.5
16°	1658.2	1135.9	281.9	52.7	16.2	10.5	11.2	9.8	9.1
17°	1987.2	1303.2	307.2	51.3	14.8	9.8	9.8	9.8	9.1
18°	2288.0	1506.4	327.6	49.9	13.4	9.8	9.1	9.1	8.4
19°	2610.7	1669.5	348.0	47.8	11.9	8.4	8.4	8.4	7.7
20°	2827.2	1869.8	370.4	45.7	10.5	7.7	8.4	7.7	7.0
21°	3101.3	2049.0	378.9	43.6	9.1	7.0	7.0	7.0	6.3
22.5°	3357.9	2287.3	392.2	39.4	7.7	5.6	6.3	5.6	5.6
23°	3397.3	2337.9	392.2	38.0	7.0	5.6	6.3	5.6	5.6
24°	3528.0	2476.4	397.2	35.1	5.6	4.9	5.6	4.9	4.9
25°	3605.3	2586.1	393.6	32.3	4.9	4.9	4.9	4.9	4.2
26°	3637.0	2616.3	385.2	30.2	4.2	4.2	4.9	4.2	3.5
27°	3670.0	2685.2	374.7	27.4	3.5	4.2	4.2	4.2	3.5
28°	3693.2	2693.6	364.1	25.3	2.8	3.5	4.2	3.5	3.5
29°	3700.9	2704.9	351.5	22.5	2.1	2.8	3.5	2.8	2.8
30°	3695.3	2702.8	333.2	20.4	2.1	2.8	2.8	2.8	2.1
32.5°	3587.8	2642.3	282.6	14.8	1.4	2.1	2.1	2.1	1.4
35°	3340.3	2503.1	230.6	9.8	1.4	1.4	1.4	1.4	0.7
37.5°	3144.9	2295.1	176.4	5.6	0.7	1.4	1.4	0.7	0.0
40°	2916.5	1993.5	127.2	3.5	0.7	0.7	0.7	0.0	0.0
42.5°	2684.5	1686.3	86.5	1.4	0.0	0.7	0.7	0.0	0.0
45°	2379.4	1291.3	56.9	0.7	0.0	0.7	0.0	0.0	0.0
47.5°	2001.2	937.7	38.7	0.0	0.0	0.7	0.0	0.0	0.0
50°	1535.9	525.1	21.8	0.0	0.7	0.7	0.7	0.0	0.0
52.5°	1012.2	262.2	8.4	0.0	0.7	0.7	0.7	0.0	0.0
55°	491.3	140.6	2.8	0.7	0.7	1.4	0.7	0.0	0.0
57.5°	232.0	54.8	0.7	0.7	1.4	1.4	0.7	0.0	0.0
60°	66.1	11.2	0.7	0.7	1.4	1.4	0.7	0.7	0.0
62.5°	9.1	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



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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)