

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: P494704

Luminaire Tested: **LDA2B108030R35D010 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: P494704  
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: LDA2B108030R35D010 2LBDLC1MMS-30DEG TILT  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

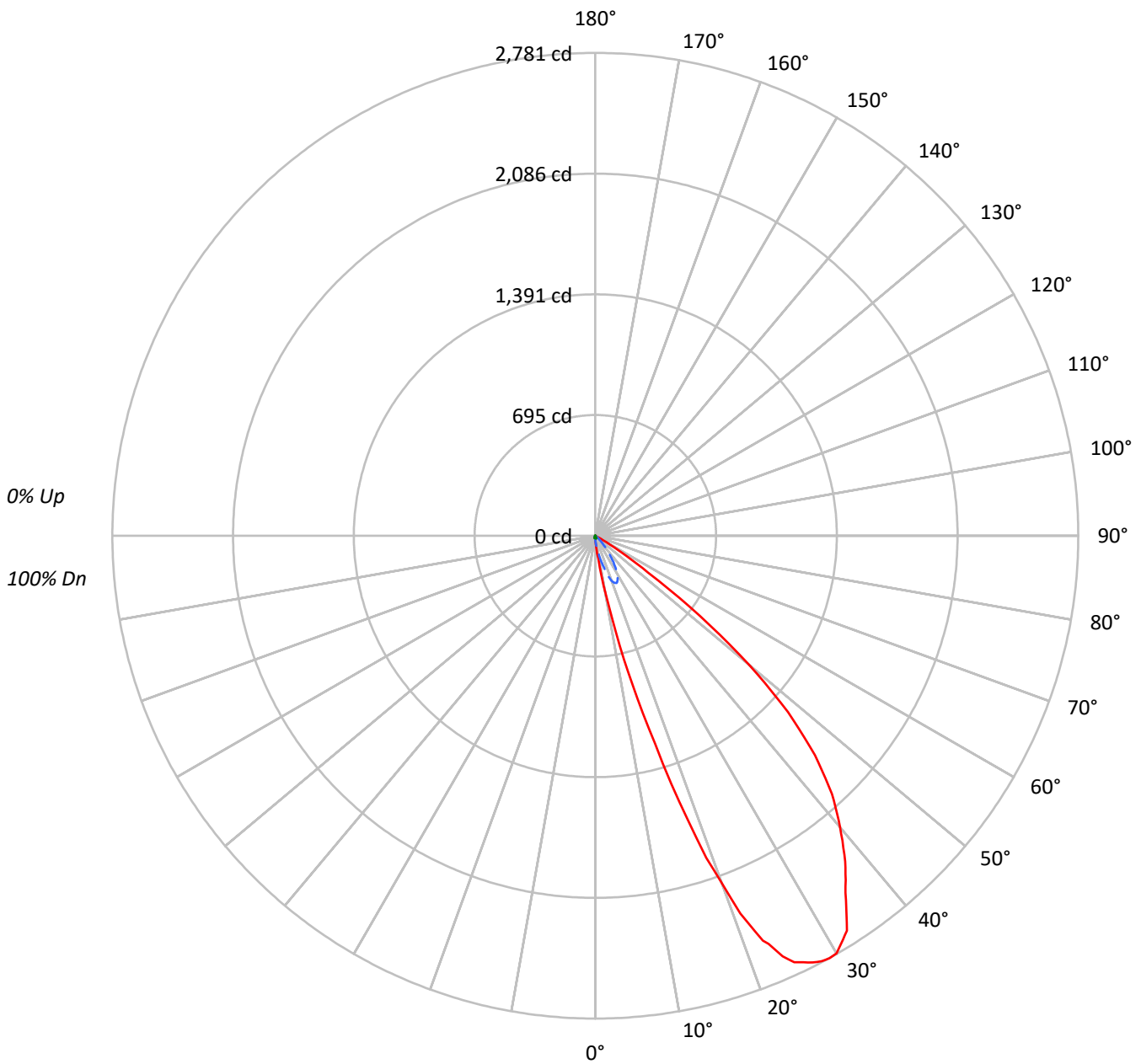
Lumens per Lamp: N/A  
Luminaire Lumens: 750.6 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
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: P494704

CATALOG NUMBER: LDA2B108030R35D010 2LBDLC1MMS-30DEG TILT

### Luminous Intensity Polar Plot



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



TEST NUMBER: P494704

CATALOG NUMBER: LDA2B108030R35D010 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	83	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°	12531	12531	12531
5°	39224	10994	6785
10°	167525	9268	5010
15°	541258	6742	4035
20°	1115572	4148	2783
25°	1475010	2014	1742
30°	1582130	911	911
35°	1511973	663	301
40°	1411603	322	0
45°	1247661	0	0
50°	885965	384	0
55°	317653	430	0
60°	49040	1085	0
65°	2452	1284	0
70°	0	1587	0
75°	0	2097	953
80°	0	3125	0
85°	0	6227	0



TEST NUMBER: P494704

CATALOG NUMBER: LDA2B108030R35D010 2LBDLC1MMS-30DEG TILT

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.5	0.6
10°-20°	60.7	8.1
20°-30°	203.3	27.1
30°-40°	256.1	34.1
40°-50°	181.2	24.1
50°-60°	41.8	5.6
60°-70°	1.4	0.2
70°-80°	0.9	0.1
80°-90°	0.7	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°	268.6	35.8
0°-40°	524.7	69.9
0°-60°	747.6	99.6
0°-90°	750.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	750.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	79	52	22	16	14	15
15°	1060	187	13	9	8	349
25°	2710	296	4	4	3	1221
35°	2510	173	1	1	0	1572
45°	1788	43	0	0	0	1341
55°	369	2	0	0	0	418
65°	2	0	1	1	0	8
75°	0	1	1	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P494704

CATALOG NUMBER: LDA2B108030R35D010 2LBDLC1MMS-30DEG TILT

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
1°	31.7	30.6	29.1	26.4	23.8	22.7	22.7	21.1	21.1
2°	38.0	36.5	33.3	28.0	23.8	21.1	20.1	19.0	18.5
3°	49.1	44.9	38.0	30.1	23.2	20.1	19.5	16.9	16.9
4°	61.3	57.1	43.8	31.7	22.7	19.0	16.9	15.8	15.3
5°	79.2	69.7	51.8	33.3	22.2	18.0	15.8	14.3	13.7
6°	102.5	89.3	59.2	34.9	21.7	16.9	14.8	13.2	12.7
7°	128.9	110.9	68.1	36.5	20.6	15.8	13.7	12.7	12.2
8°	184.9	142.6	78.7	37.5	20.1	14.8	13.2	11.6	11.1
9°	247.2	184.4	90.3	39.1	19.0	14.3	12.2	11.1	10.6
10°	334.4	241.4	103.5	40.1	18.5	13.2	11.1	10.6	10.0
11°	421.0	312.2	119.9	40.7	17.4	11.6	11.1	10.6	10.0
12°	563.7	379.8	134.2	40.7	16.4	11.1	10.0	9.5	9.0
13°	732.7	496.1	154.8	41.2	14.8	10.6	9.5	9.0	9.0
14°	881.7	600.1	168.5	41.2	14.3	9.5	9.0	9.0	8.5
15°	1059.7	701.6	187.0	40.7	13.2	9.0	9.0	8.5	7.9
16°	1246.2	853.7	211.8	39.6	12.2	7.9	8.5	7.4	6.9
17°	1493.5	979.4	230.9	38.6	11.1	7.4	7.4	7.4	6.9
18°	1719.6	1132.1	246.2	37.5	10.0	7.4	6.9	6.9	6.3
19°	1962.0	1254.7	261.5	35.9	9.0	6.3	6.3	6.3	5.8
20°	2124.8	1405.2	278.4	34.3	7.9	5.8	6.3	5.8	5.3
21°	2330.8	1539.9	284.7	32.8	6.9	5.3	5.3	5.3	4.8
22.5°	2523.6	1719.0	294.8	29.6	5.8	4.2	4.8	4.2	4.2
23°	2553.2	1757.1	294.8	28.5	5.3	4.2	4.8	4.2	4.2
24°	2651.5	1861.1	298.5	26.4	4.2	3.7	4.2	3.7	3.7
25°	2709.6	1943.6	295.8	24.3	3.7	3.7	3.7	3.7	3.2
26°	2733.3	1966.3	289.5	22.7	3.2	3.2	3.7	3.2	2.6
27°	2758.2	2018.0	281.6	20.6	2.6	3.2	3.2	3.2	2.6
28°	2775.6	2024.4	273.7	19.0	2.1	2.6	3.2	2.6	2.6
29°	2781.4	2032.8	264.1	16.9	1.6	2.1	2.6	2.1	2.1
30°	2777.2	2031.2	250.4	15.3	1.6	2.1	2.1	2.1	1.6
32.5°	2696.4	1985.8	212.4	11.1	1.1	1.6	1.6	1.6	1.1
35°	2510.4	1881.2	173.3	7.4	1.1	1.1	1.1	1.1	0.5
37.5°	2363.5	1724.8	132.6	4.2	0.5	1.1	1.1	0.5	0.0
40°	2191.8	1498.2	95.6	2.6	0.5	0.5	0.5	0.0	0.0
42.5°	2017.5	1267.4	65.0	1.1	0.0	0.5	0.5	0.0	0.0
45°	1788.2	970.5	42.8	0.5	0.0	0.5	0.0	0.0	0.0
47.5°	1504.0	704.7	29.1	0.0	0.0	0.5	0.0	0.0	0.0
50°	1154.3	394.6	16.4	0.0	0.5	0.5	0.5	0.0	0.0
52.5°	760.7	197.0	6.3	0.0	0.5	0.5	0.5	0.0	0.0
55°	369.3	105.7	2.1	0.5	0.5	1.1	0.5	0.0	0.0
57.5°	174.3	41.2	0.5	0.5	1.1	1.1	0.5	0.0	0.0
60°	49.7	8.5	0.5	0.5	1.1	1.1	0.5	0.5	0.0
62.5°	6.9	1.1	0.5	1.1	1.1	1.1	1.1	0.5	0.0
65°	2.1	0.5	0.5	1.1	1.1	1.1	1.1	0.5	0.0



TEST NUMBER: P494704

CATALOG NUMBER: LDA2B108030R35D010 2LBDLC1MMS-30DEG TILT

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	0.5	0.0
70°	0.0	0.5	0.5	1.1	1.1	1.1	1.1	0.5	0.0
72.5°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.0
75°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.5
77.5°	0.0	0.5	1.1	1.1	1.6	1.1	1.1	0.5	0.0
80°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.0
82.5°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.0
85°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.0
87.5°	0.0	0.5	1.1	1.1	1.1	1.1	0.5	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)