

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: P500509

Luminaire Tested: **LDA2B208035R35D010 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: P500509
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: LDA2B208035R35D010 2LBD1MMS-30DEG TILT
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

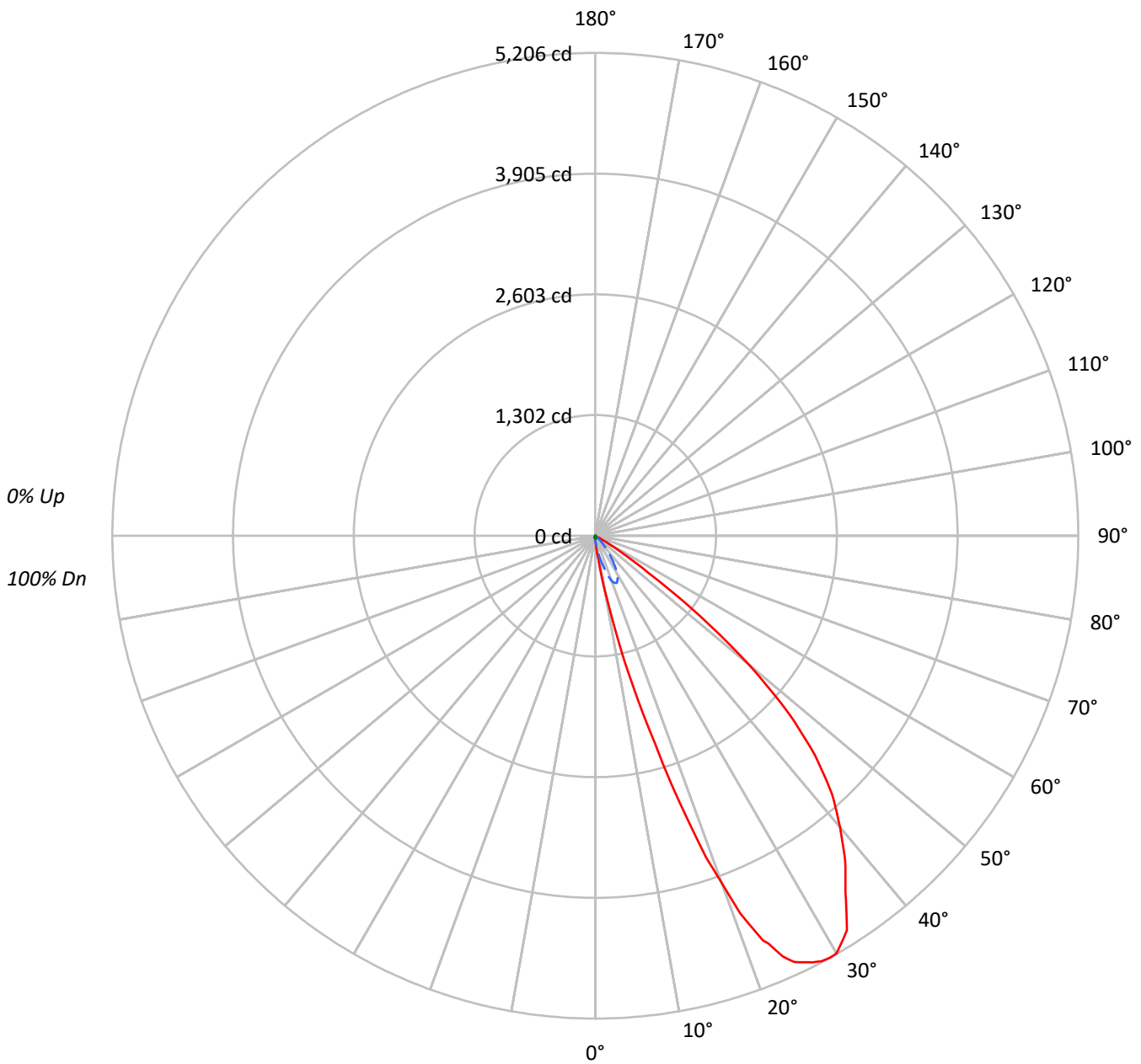
Lumens per Lamp: N/A
Luminaire Lumens: 1404.9 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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: P500509

CATALOG NUMBER: LDA2B208035R35D010 2LBD1MMS-30DEG TILT

Luminous Intensity Polar Plot



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



TEST NUMBER: P500509

CATALOG NUMBER: LDA2B208035R35D010 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	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°	23435	23435	23435
5°	73445	20553	12728
10°	313559	17334	9418
15°	1013104	12616	7559
20°	2087971	7770	5198
25°	2760690	3756	3212
30°	2961223	1709	1709
35°	2829950	1205	602
40°	2642102	644	0
45°	2335265	0	0
50°	1658259	768	0
55°	594536	860	0
60°	91667	1973	0
65°	4670	2335	0
70°	0	2885	0
75°	0	3812	1906
80°	0	5682	0
85°	0	11321	0



TEST NUMBER: P500509

CATALOG NUMBER: LDA2B208035R35D010 2LBD1MMS-30DEG TILT

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.6
10°-20°	113.7	8.1
20°-30°	380.6	27.1
30°-40°	479.4	34.1
40°-50°	339.1	24.1
50°-60°	78.2	5.6
60°-70°	2.6	0.2
70°-80°	1.6	0.1
80°-90°	1.4	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°	502.7	35.8
0°-40°	982.1	69.9
0°-60°	1399.4	99.6
0°-90°	1404.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1404.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	148	97	42	30	26	28
15°	1984	350	25	17	15	654
25°	5071	554	7	7	6	2286
35°	4699	324	2	2	1	2941
45°	3347	80	0	0	0	2510
55°	691	4	1	1	0	782
65°	4	1	2	2	0	16
75°	0	2	2	2	1	0
85°	0	2	2	2	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°	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
1°	59.3	57.3	54.4	49.4	44.5	42.5	42.5	39.6	39.6
2°	71.2	68.2	62.3	52.4	44.5	39.6	37.6	35.6	34.6
3°	92.0	84.0	71.2	56.4	43.5	37.6	36.6	31.6	31.6
4°	114.7	106.8	82.1	59.3	42.5	35.6	31.6	29.7	28.7
5°	148.3	130.5	96.9	62.3	41.5	33.6	29.7	26.7	25.7
6°	191.8	167.1	110.7	65.3	40.5	31.6	27.7	24.7	23.7
7°	241.3	207.6	127.6	68.2	38.6	29.7	25.7	23.7	22.7
8°	346.1	267.0	147.3	70.2	37.6	27.7	24.7	21.8	20.8
9°	462.7	345.1	169.1	73.2	35.6	26.7	22.7	20.8	19.8
10°	625.9	451.9	193.8	75.1	34.6	24.7	20.8	19.8	18.8
11°	788.1	584.4	224.5	76.1	32.6	21.8	20.8	19.8	18.8
12°	1055.0	710.9	251.1	76.1	30.7	20.8	18.8	17.8	16.8
13°	1371.4	928.5	289.7	77.1	27.7	19.8	17.8	16.8	16.8
14°	1650.3	1123.3	315.4	77.1	26.7	17.8	16.8	16.8	15.8
15°	1983.5	1313.1	350.0	76.1	24.7	16.8	16.8	15.8	14.8
16°	2332.5	1597.9	396.5	74.2	22.7	14.8	15.8	13.8	12.9
17°	2795.3	1833.2	432.1	72.2	20.8	13.8	13.8	13.8	12.9
18°	3218.5	2118.9	460.8	70.2	18.8	13.8	12.9	12.9	11.9
19°	3672.3	2348.3	489.4	67.2	16.8	11.9	11.9	11.9	10.9
20°	3976.9	2630.1	521.1	64.3	14.8	10.9	11.9	10.9	9.9
21°	4362.5	2882.3	533.0	61.3	12.9	9.9	9.9	9.9	8.9
22.5°	4723.4	3217.5	551.7	55.4	10.9	7.9	8.9	7.9	7.9
23°	4778.8	3288.7	551.7	53.4	9.9	7.9	8.9	7.9	7.9
24°	4962.7	3483.5	558.7	49.4	7.9	6.9	7.9	6.9	6.9
25°	5071.4	3637.7	553.7	45.5	6.9	6.9	6.9	6.9	5.9
26°	5115.9	3680.2	541.8	42.5	5.9	5.9	6.9	5.9	4.9
27°	5162.4	3777.1	527.0	38.6	4.9	5.9	5.9	5.9	4.9
28°	5195.0	3789.0	512.2	35.6	4.0	4.9	5.9	4.9	4.9
29°	5205.9	3804.8	494.4	31.6	3.0	4.0	4.9	4.0	4.0
30°	5198.0	3801.8	468.7	28.7	3.0	4.0	4.0	4.0	3.0
32.5°	5046.7	3716.8	397.5	20.8	2.0	3.0	3.0	3.0	2.0
35°	4698.7	3521.0	324.3	13.8	2.0	2.0	2.0	2.0	1.0
37.5°	4423.8	3228.4	248.2	7.9	1.0	2.0	2.0	1.0	0.0
40°	4102.4	2804.2	179.0	4.9	1.0	1.0	1.0	0.0	0.0
42.5°	3776.1	2372.1	121.6	2.0	0.0	1.0	1.0	0.0	0.0
45°	3347.0	1816.4	80.1	1.0	0.0	1.0	0.0	0.0	0.0
47.5°	2815.0	1319.0	54.4	0.0	0.0	1.0	0.0	0.0	0.0
50°	2160.5	738.6	30.7	0.0	1.0	1.0	1.0	0.0	0.0
52.5°	1423.8	368.8	11.9	0.0	1.0	1.0	1.0	0.0	0.0
55°	691.2	197.8	4.0	1.0	1.0	2.0	1.0	0.0	0.0
57.5°	326.3	77.1	1.0	1.0	2.0	2.0	1.0	0.0	0.0
60°	92.9	15.8	1.0	1.0	2.0	2.0	1.0	1.0	0.0
62.5°	12.9	2.0	1.0	2.0	2.0	2.0	2.0	1.0	0.0
65°	4.0	1.0	1.0	2.0	2.0	2.0	2.0	1.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	1.0	0.0
70°	0.0	1.0	1.0	2.0	2.0	2.0	2.0	1.0	0.0
72.5°	0.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	0.0
75°	0.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0
77.5°	0.0	1.0	2.0	2.0	3.0	2.0	2.0	1.0	0.0
80°	0.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	0.0
82.5°	0.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	0.0
85°	0.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	0.0
87.5°	0.0	1.0	2.0	2.0	2.0	2.0	1.0	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)