

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: P500253

Luminaire Tested: **LDA2B208030R30D010 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: P500253  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B208030R30D010 2LBD1MMS-30DEG TILT  
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

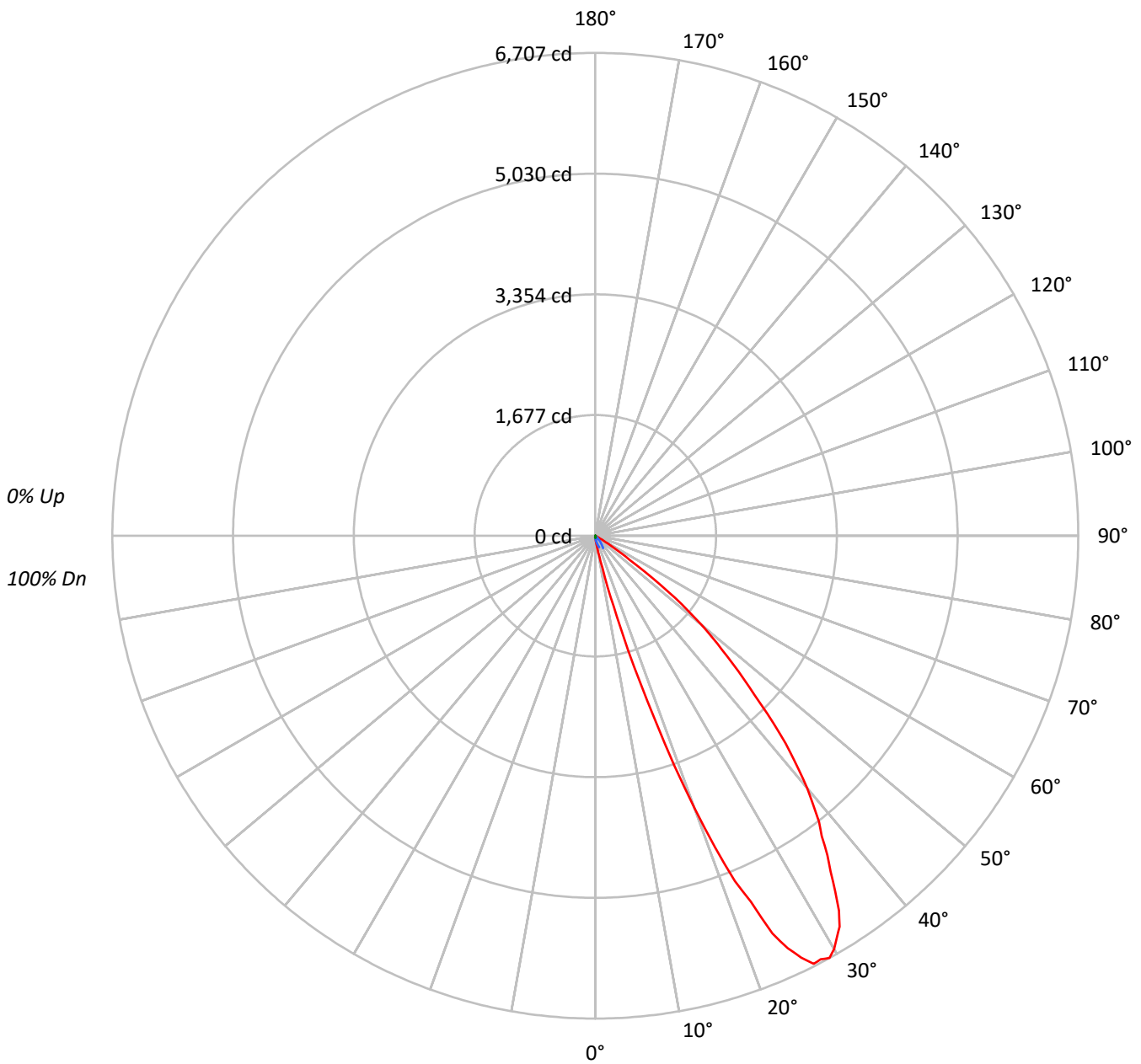
Lumens per Lamp: N/A  
Luminaire Lumens: 1349.1 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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: P500253

CATALOG NUMBER: LDA2B208030R30D010 2LBD1MMS-30DEG TILT

### Luminous Intensity Polar Plot



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



TEST NUMBER: P500253

CATALOG NUMBER: LDA2B208030R30D010 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	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	57	56					56			
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49					49			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39					39			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31					31			

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

	0°	90°	180°
0°	14949	14949	14949
5°	32439	13570	9707
10°	97489	11773	6362
15°	591416	8479	5006
20°	2117424	4620	2048
25°	3441091	1579	0
30°	3776671	570	0
35°	3432052	0	0
40°	2945701	0	0
45°	2183442	0	0
50°	1476430	0	0
55°	498801	860	0
60°	71439	1973	0
65°	5720	2335	0
70°	0	2885	0
75°	0	5528	0
80°	0	5682	0
85°	0	11321	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.9	0.3
10°-20°	69.5	5.2
20°-30°	394.5	29.2
30°-40°	514.0	38.1
40°-50°	301.0	22.3
50°-60°	60.8	4.5
60°-70°	2.4	0.2
70°-80°	1.7	0.1
80°-90°	1.3	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°	467.9	34.7
0°-40°	981.9	72.8
0°-60°	1343.7	99.6
0°-90°	1349.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1349.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	66	47	27	22	20	10
15°	1158	132	17	11	10	490
25°	6321	222	3	2	0	2795
35°	5698	162	0	0	0	3549
45°	3129	40	0	0	0	2444
55°	580	4	1	1	0	676
65°	5	1	2	2	0	14
75°	0	2	3	2	0	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°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
2.5°	41.1	38.1	36.2	31.3	28.4	26.4	25.4	24.4	23.5
5°	65.5	60.6	46.9	34.2	27.4	23.5	21.5	19.6	19.6
7.5°	112.5	90.9	61.6	36.2	25.4	20.5	18.6	15.6	14.7
10°	194.6	151.6	84.1	38.1	23.5	18.6	14.7	13.7	12.7
12.5°	456.7	276.8	106.6	38.1	20.5	15.6	12.7	11.7	10.8
15°	1157.9	564.3	132.0	36.2	16.6	11.7	10.8	9.8	9.8
17.5°	2401.8	1158.8	160.4	33.2	13.7	8.8	7.8	6.8	6.8
20°	4033.0	2077.1	187.8	28.4	8.8	5.9	4.9	3.9	3.9
21°	4633.4	2410.6	201.5	26.4	7.8	4.9	3.9	3.9	2.9
22°	5173.2	2716.7	209.3	25.4	5.9	3.9	3.9	2.9	2.9
23°	5521.4	3104.9	216.1	22.5	4.9	2.9	2.9	2.0	1.0
24°	6046.5	3409.1	219.1	20.5	3.9	2.9	2.0	1.0	1.0
25°	6321.3	3684.8	222.0	18.6	2.9	2.9	2.0	1.0	0.0
26°	6518.9	3902.9	232.7	17.6	2.9	2.0	2.0	1.0	0.0
27°	6673.4	4041.8	238.6	15.6	2.0	2.0	2.0	0.0	0.0
28°	6664.6	4142.5	233.7	13.7	2.0	2.0	1.0	0.0	0.0
29°	6706.6	4211.0	230.8	11.7	1.0	1.0	1.0	0.0	0.0
30°	6629.4	4216.8	220.0	10.8	1.0	1.0	1.0	0.0	0.0
31°	6512.0	4145.4	216.1	9.8	0.0	1.0	1.0	0.0	0.0
32°	6401.5	4113.2	203.4	7.8	0.0	1.0	1.0	0.0	0.0
33°	6211.8	3968.4	190.7	6.8	0.0	1.0	0.0	0.0	0.0
34°	5957.5	3826.6	179.0	5.9	0.0	1.0	0.0	0.0	0.0
35°	5698.4	3709.3	162.3	5.9	0.0	1.0	0.0	0.0	0.0
36°	5483.2	3496.1	150.6	4.9	0.0	1.0	0.0	0.0	0.0
37°	5222.1	3313.2	135.0	3.9	0.0	0.0	0.0	0.0	0.0
38°	5044.2	3056.0	123.2	3.9	0.0	0.0	0.0	0.0	0.0
39°	4804.6	2838.9	108.6	2.9	0.0	0.0	0.0	0.0	0.0
40°	4573.8	2614.0	93.9	2.0	0.0	0.0	0.0	0.0	0.0
42.5°	3911.7	2016.5	64.5	1.0	0.0	0.0	0.0	0.0	0.0
45°	3129.4	1478.6	40.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2484.9	998.5	25.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	1923.6	514.4	14.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1279.1	218.1	8.8	0.0	0.0	1.0	0.0	0.0	0.0
55°	579.9	113.4	3.9	0.0	1.0	1.0	1.0	0.0	0.0
57.5°	233.7	48.9	2.0	1.0	1.0	1.0	1.0	0.0	0.0
60°	72.4	13.7	1.0	1.0	2.0	2.0	1.0	0.0	0.0
62.5°	14.7	2.9	1.0	2.0	2.0	2.0	1.0	0.0	0.0
65°	4.9	1.0	1.0	2.0	2.0	2.0	2.0	0.0	0.0
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	2.0	2.0	2.0	2.9	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	2.9	2.9	2.0	1.0	0.0
77.5°	0.0	1.0	2.0	2.0	2.0	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



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
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	0.0	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)