

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: P492259

Luminaire Tested: **LDA2B058040R30D010 2LBD1MB-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: P492259  
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: LDA2B058040R30D010 2LBD1MB-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

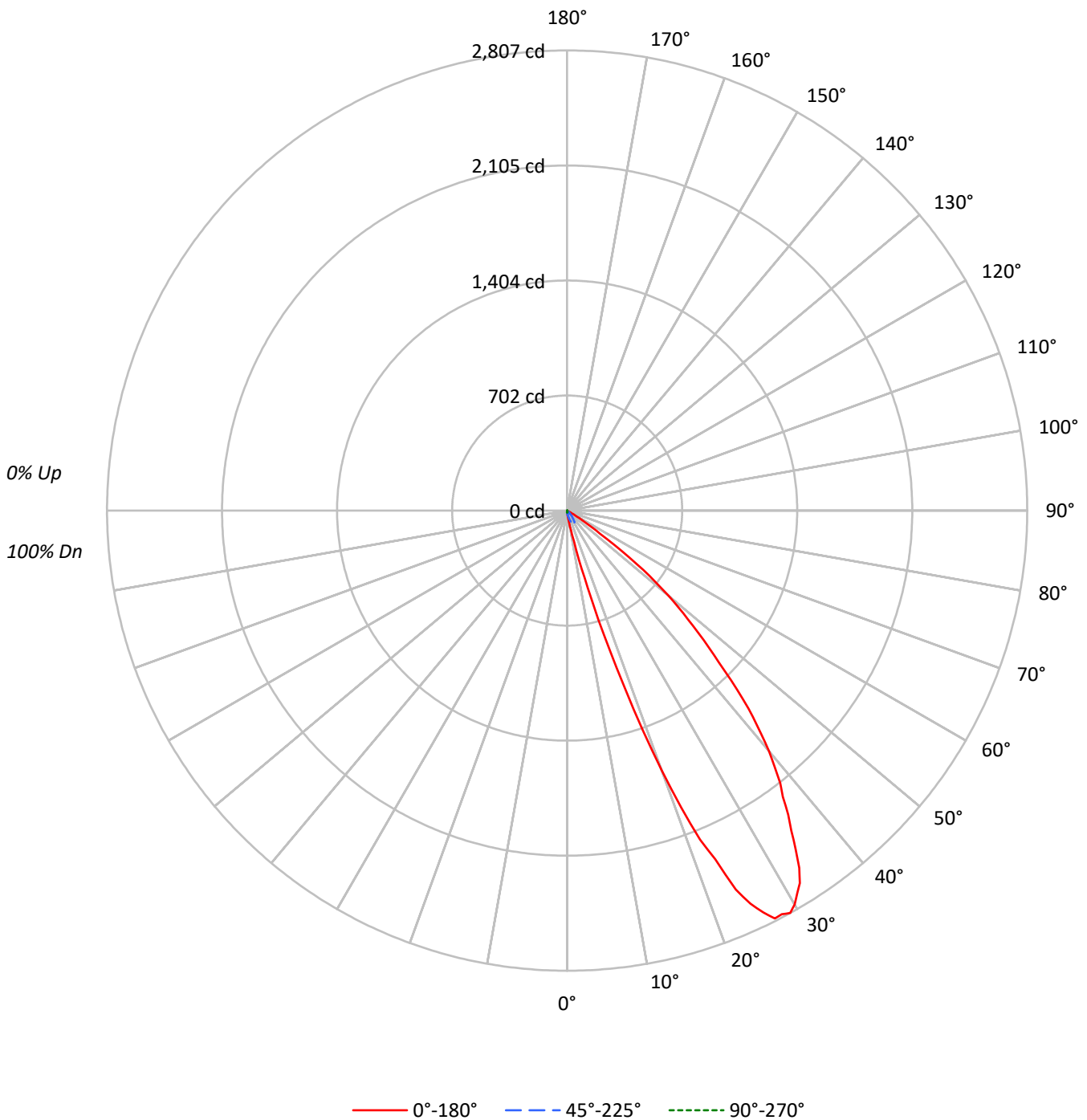
Lumens per Lamp: N/A  
Luminaire Lumens: 564.5 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
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: P492259

CATALOG NUMBER: LDA2B058040R30D010 2LBD1MB-30DEG TILT

### Luminous Intensity Polar Plot





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**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	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°	6266	6266	6266
5°	13570	5695	4061
10°	40779	4910	2655
15°	247517	3575	2094
20°	886137	1943	840
25°	1440062	653	0
30°	1580477	228	0
35°	1436266	0	0
40°	1232753	0	0
45°	913733	0	0
50°	617865	0	0
55°	208758	344	0
60°	29898	789	0
65°	2335	934	0
70°	0	1154	0
75°	0	2287	0
80°	0	2273	0
85°	0	4529	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.6	0.3
10°-20°	29.1	5.2
20°-30°	165.1	29.2
30°-40°	215.1	38.1
40°-50°	126.0	22.3
50°-60°	25.4	4.5
60°-70°	1.0	0.2
70°-80°	0.7	0.1
80°-90°	0.5	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°	195.8	34.7
0°-40°	410.9	72.8
0°-60°	562.3	99.6
0°-90°	564.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	564.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	27	20	12	9	8	4
15°	485	55	7	4	4	205
25°	2645	93	1	1	0	1170
35°	2385	68	0	0	0	1485
45°	1310	17	0	0	0	1023
55°	243	2	0	0	0	283
65°	2	0	1	1	0	6
75°	0	1	1	1	0	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°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
2.5°	17.2	16.0	15.1	13.1	11.9	11.0	10.6	10.2	9.8
5°	27.4	25.4	19.6	14.3	11.5	9.8	9.0	8.2	8.2
7.5°	47.1	38.1	25.8	15.1	10.6	8.6	7.8	6.5	6.1
10°	81.4	63.4	35.2	16.0	9.8	7.8	6.1	5.7	5.3
12.5°	191.1	115.8	44.6	16.0	8.6	6.5	5.3	4.9	4.5
15°	484.6	236.1	55.2	15.1	7.0	4.9	4.5	4.1	4.1
17.5°	1005.1	485.0	67.1	13.9	5.7	3.7	3.3	2.9	2.9
20°	1687.8	869.2	78.6	11.9	3.7	2.5	2.0	1.6	1.6
21°	1939.0	1008.8	84.3	11.0	3.3	2.0	1.6	1.6	1.2
22°	2164.9	1136.9	87.6	10.6	2.5	1.6	1.6	1.2	1.2
23°	2310.6	1299.4	90.4	9.4	2.0	1.2	1.2	0.8	0.4
24°	2530.4	1426.7	91.7	8.6	1.6	1.2	0.8	0.4	0.4
25°	2645.4	1542.1	92.9	7.8	1.2	1.2	0.8	0.4	0.0
26°	2728.1	1633.3	97.4	7.4	1.2	0.8	0.8	0.4	0.0
27°	2792.7	1691.4	99.9	6.5	0.8	0.8	0.8	0.0	0.0
28°	2789.0	1733.6	97.8	5.7	0.8	0.8	0.4	0.0	0.0
29°	2806.6	1762.2	96.6	4.9	0.4	0.4	0.4	0.0	0.0
30°	2774.3	1764.7	92.1	4.5	0.4	0.4	0.4	0.0	0.0
31°	2725.2	1734.8	90.4	4.1	0.0	0.4	0.4	0.0	0.0
32°	2679.0	1721.3	85.1	3.3	0.0	0.4	0.4	0.0	0.0
33°	2599.6	1660.7	79.8	2.9	0.0	0.4	0.0	0.0	0.0
34°	2493.2	1601.4	74.9	2.5	0.0	0.4	0.0	0.0	0.0
35°	2384.7	1552.3	67.9	2.5	0.0	0.4	0.0	0.0	0.0
36°	2294.7	1463.1	63.0	2.0	0.0	0.4	0.0	0.0	0.0
37°	2185.4	1386.5	56.5	1.6	0.0	0.0	0.0	0.0	0.0
38°	2110.9	1278.9	51.6	1.6	0.0	0.0	0.0	0.0	0.0
39°	2010.7	1188.1	45.4	1.2	0.0	0.0	0.0	0.0	0.0
40°	1914.1	1093.9	39.3	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	1637.0	843.9	27.0	0.4	0.0	0.0	0.0	0.0	0.0
45°	1309.6	618.8	16.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1039.9	417.8	10.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	805.0	215.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	535.3	91.3	3.7	0.0	0.0	0.4	0.0	0.0	0.0
55°	242.7	47.5	1.6	0.0	0.4	0.4	0.4	0.0	0.0
57.5°	97.8	20.5	0.8	0.4	0.4	0.4	0.4	0.0	0.0
60°	30.3	5.7	0.4	0.4	0.8	0.8	0.4	0.0	0.0
62.5°	6.1	1.2	0.4	0.8	0.8	0.8	0.4	0.0	0.0
65°	2.0	0.4	0.4	0.8	0.8	0.8	0.8	0.0	0.0
67.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0
70°	0.0	0.4	0.8	0.8	0.8	1.2	0.8	0.4	0.0
72.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
75°	0.0	0.4	0.8	0.8	1.2	1.2	0.8	0.4	0.0
77.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
80°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	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	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
85°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.0	0.0
87.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.4	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)