

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: P492087

Luminaire Tested: **LDA2B058035R35D010 2LBD1MW-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: P492087  
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: LDA2B058035R35D010 2LBD1MW-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

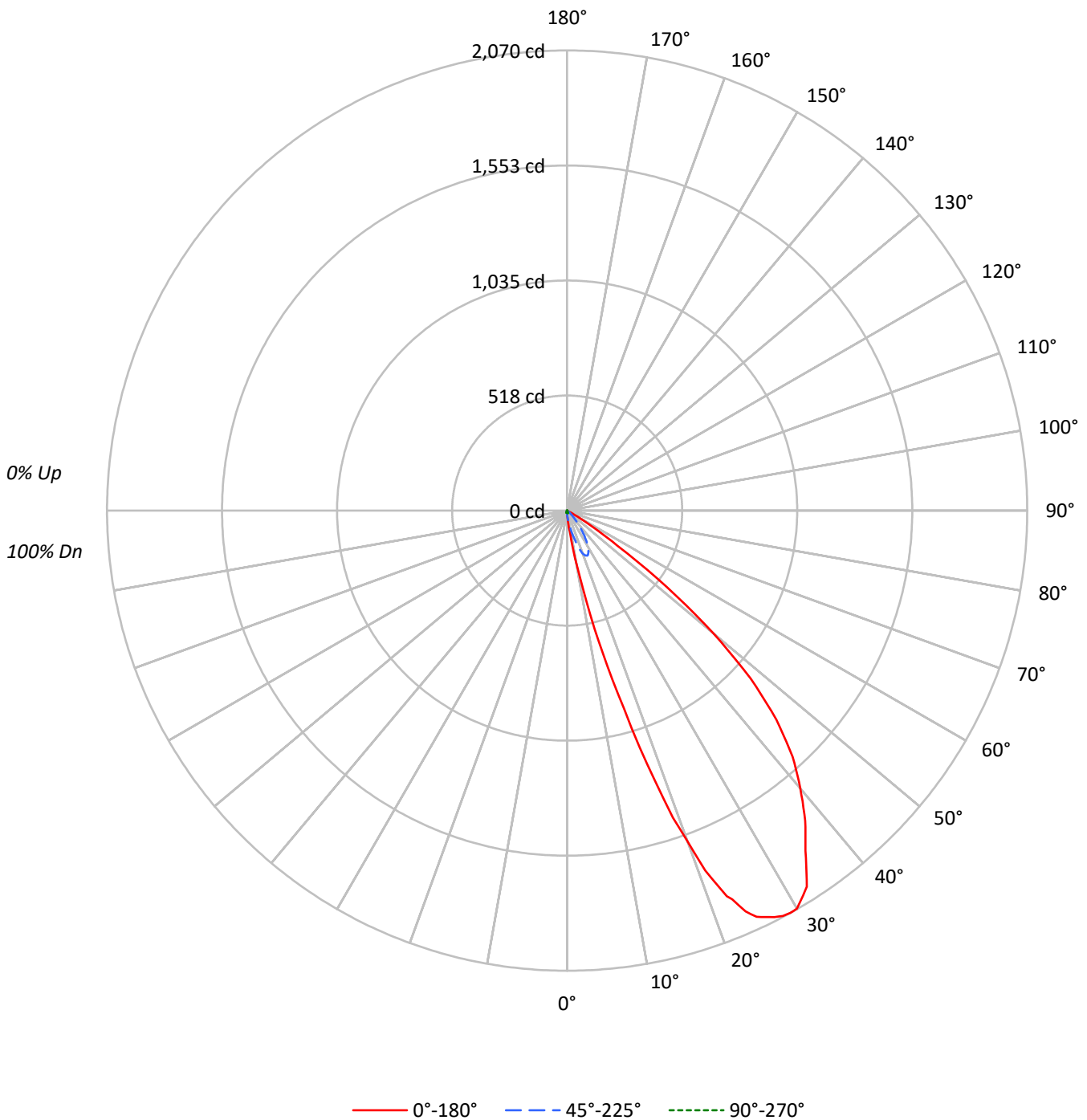
Lumens per Lamp: N/A  
Luminaire Lumens: 558.7 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
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

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### 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				
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82					80				
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73					71				
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65					63				
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58					56				
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51					49				
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46					44				
8	67	54	47	42	65	54	46	41	53	46	41	51	45	41	50	45	41					39				
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36					35				
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33					31				

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

	0°	90°	180°
0°	9325	9325	9325
5°	29220	8172	5052
10°	124692	6913	3757
15°	402841	5006	3014
20°	830221	3098	2048
25°	1097765	1524	1306
30°	1177482	684	684
35°	1125246	482	241
40°	1050619	258	0
45°	928594	0	0
50°	659389	307	0
55°	236369	344	0
60°	36509	789	0
65°	1868	934	0
70°	0	1154	0
75°	0	1525	762
80°	0	2273	0
85°	0	4529	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.3	0.6
10°-20°	45.2	8.1
20°-30°	151.3	27.1
30°-40°	190.6	34.1
40°-50°	134.9	24.1
50°-60°	31.1	5.6
60°-70°	1.0	0.2
70°-80°	0.6	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°	199.9	35.8
0°-40°	390.5	69.9
0°-60°	556.5	99.6
0°-90°	558.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	558.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	59	38	16	12	10	11
15°	789	139	10	7	6	260
25°	2017	220	3	3	2	909
35°	1868	129	1	1	0	1170
45°	1331	32	0	0	0	998
55°	275	2	0	0	0	311
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°	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
1°	23.6	22.8	21.6	19.7	17.7	16.9	16.9	15.7	15.7
2°	28.3	27.1	24.8	20.8	17.7	15.7	14.9	14.2	13.8
3°	36.6	33.4	28.3	22.4	17.3	14.9	14.5	12.6	12.6
4°	45.6	42.5	32.6	23.6	16.9	14.2	12.6	11.8	11.4
5°	59.0	51.9	38.5	24.8	16.5	13.4	11.8	10.6	10.2
6°	76.3	66.4	44.0	25.9	16.1	12.6	11.0	9.8	9.4
7°	95.9	82.6	50.7	27.1	15.3	11.8	10.2	9.4	9.0
8°	137.6	106.2	58.6	27.9	14.9	11.0	9.8	8.6	8.3
9°	184.0	137.2	67.2	29.1	14.2	10.6	9.0	8.3	7.9
10°	248.9	179.7	77.1	29.9	13.8	9.8	8.3	7.9	7.5
11°	313.4	232.4	89.2	30.3	13.0	8.6	8.3	7.9	7.5
12°	419.5	282.7	99.9	30.3	12.2	8.3	7.5	7.1	6.7
13°	545.3	369.2	115.2	30.7	11.0	7.9	7.1	6.7	6.7
14°	656.2	446.6	125.4	30.7	10.6	7.1	6.7	6.7	6.3
15°	788.7	522.1	139.2	30.3	9.8	6.7	6.7	6.3	5.9
16°	927.5	635.4	157.7	29.5	9.0	5.9	6.3	5.5	5.1
17°	1111.5	728.9	171.8	28.7	8.3	5.5	5.5	5.5	5.1
18°	1279.8	842.6	183.2	27.9	7.5	5.5	5.1	5.1	4.7
19°	1460.2	933.8	194.6	26.7	6.7	4.7	4.7	4.7	4.3
20°	1581.3	1045.8	207.2	25.6	5.9	4.3	4.7	4.3	3.9
21°	1734.7	1146.1	211.9	24.4	5.1	3.9	3.9	3.9	3.5
22.5°	1878.2	1279.4	219.4	22.0	4.3	3.1	3.5	3.1	3.1
23°	1900.2	1307.7	219.4	21.2	3.9	3.1	3.5	3.1	3.1
24°	1973.3	1385.1	222.1	19.7	3.1	2.8	3.1	2.8	2.8
25°	2016.6	1446.5	220.2	18.1	2.8	2.8	2.8	2.8	2.4
26°	2034.3	1463.4	215.5	16.9	2.4	2.4	2.8	2.4	2.0
27°	2052.7	1501.9	209.6	15.3	2.0	2.4	2.4	2.4	2.0
28°	2065.7	1506.6	203.7	14.2	1.6	2.0	2.4	2.0	2.0
29°	2070.0	1512.9	196.6	12.6	1.2	1.6	2.0	1.6	1.6
30°	2066.9	1511.7	186.4	11.4	1.2	1.6	1.6	1.6	1.2
32.5°	2006.7	1477.9	158.1	8.3	0.8	1.2	1.2	1.2	0.8
35°	1868.3	1400.1	129.0	5.5	0.8	0.8	0.8	0.8	0.4
37.5°	1759.0	1283.7	98.7	3.1	0.4	0.8	0.8	0.4	0.0
40°	1631.3	1115.0	71.2	2.0	0.4	0.4	0.4	0.0	0.0
42.5°	1501.5	943.2	48.4	0.8	0.0	0.4	0.4	0.0	0.0
45°	1330.9	722.3	31.8	0.4	0.0	0.4	0.0	0.0	0.0
47.5°	1119.4	524.5	21.6	0.0	0.0	0.4	0.0	0.0	0.0
50°	859.1	293.7	12.2	0.0	0.4	0.4	0.4	0.0	0.0
52.5°	566.2	146.7	4.7	0.0	0.4	0.4	0.4	0.0	0.0
55°	274.8	78.6	1.6	0.4	0.4	0.8	0.4	0.0	0.0
57.5°	129.7	30.7	0.4	0.4	0.8	0.8	0.4	0.0	0.0
60°	37.0	6.3	0.4	0.4	0.8	0.8	0.4	0.4	0.0
62.5°	5.1	0.8	0.4	0.8	0.8	0.8	0.8	0.4	0.0
65°	1.6	0.4	0.4	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°
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	0.4	0.8	0.8	0.8	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	0.8	0.8	0.8	0.4	0.4
77.5°	0.0	0.4	0.8	0.8	1.2	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
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	0.4	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)