

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: P493389

Luminaire Tested: **LDA2B059035R35D010 2LBD1WMH-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: P493389  
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: LDA2B059035R35D010 2LBD1WMH-30DEG TILT  
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

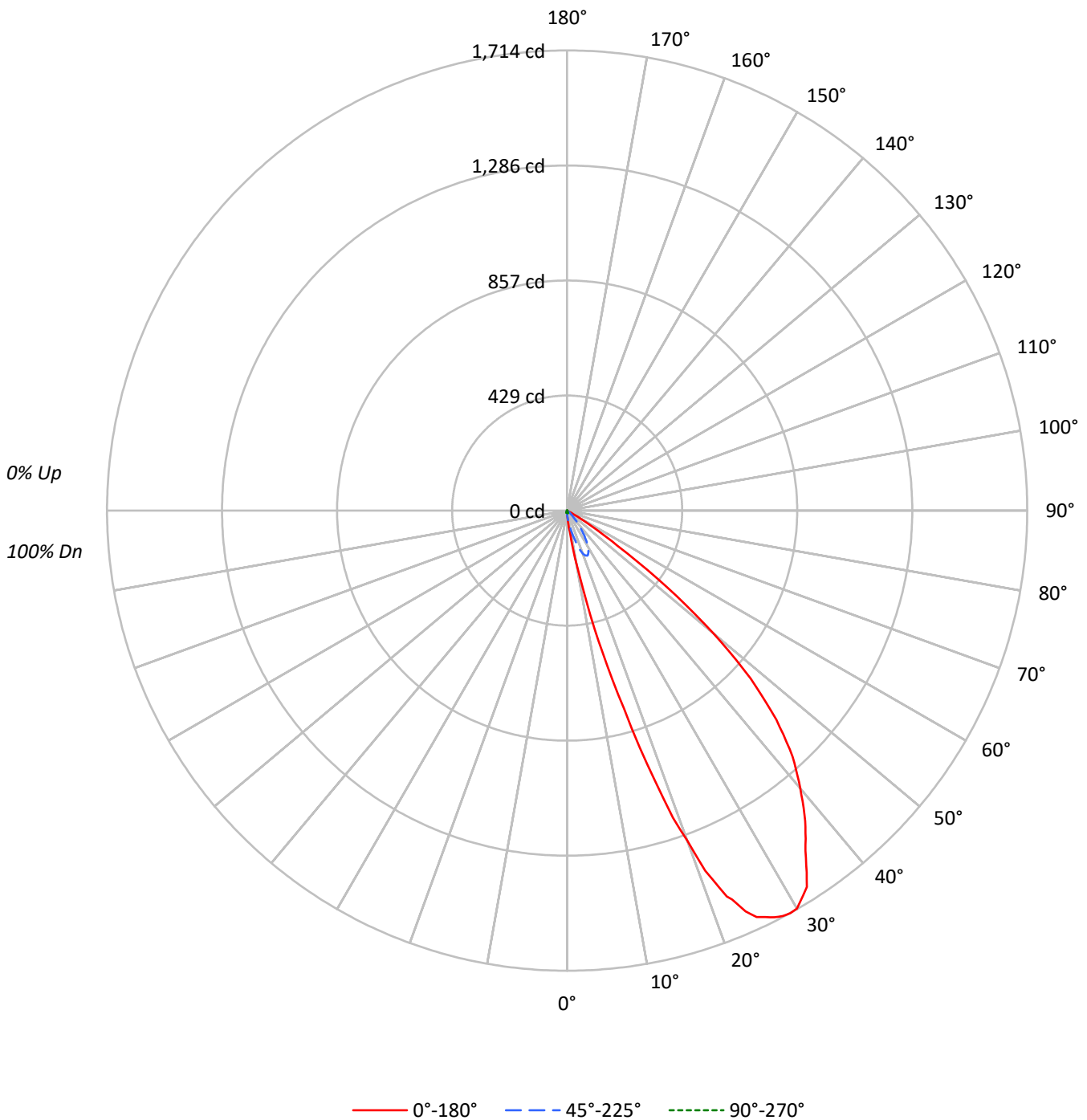
Lumens per Lamp: N/A  
Luminaire Lumens: 462.7 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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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	75	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°	7696	7696	7696
5°	24168	6785	4210
10°	103250	5711	3106
15°	333632	4137	2503
20°	687625	2573	1733
25°	909143	1252	1089
30°	975187	570	570
35°	931974	422	181
40°	870095	193	0
45°	769026	0	0
50°	546101	230	0
55°	195770	258	0
60°	30194	691	0
65°	1518	817	0
70°	0	1010	0
75°	0	1334	572
80°	0	1989	0
85°	0	3962	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.7	0.6
10°-20°	37.4	8.1
20°-30°	125.3	27.1
30°-40°	157.9	34.1
40°-50°	111.7	24.1
50°-60°	25.7	5.6
60°-70°	0.9	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°	165.5	35.8
0°-40°	323.4	69.9
0°-60°	460.8	99.6
0°-90°	462.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	462.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	49	32	14	10	8	9
15°	653	115	8	6	5	215
25°	1670	182	2	2	2	753
35°	1547	107	1	1	0	969
45°	1102	26	0	0	0	827
55°	228	1	0	0	0	258
65°	1	0	1	1	0	5
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°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
1°	19.5	18.9	17.9	16.3	14.7	14.0	14.0	13.0	13.0
2°	23.4	22.5	20.5	17.3	14.7	13.0	12.4	11.7	11.4
3°	30.3	27.7	23.4	18.6	14.3	12.4	12.0	10.4	10.4
4°	37.8	35.2	27.0	19.5	14.0	11.7	10.4	9.8	9.4
5°	48.8	43.0	31.9	20.5	13.7	11.1	9.8	8.8	8.5
6°	63.2	55.0	36.5	21.5	13.4	10.4	9.1	8.1	7.8
7°	79.5	68.4	42.0	22.5	12.7	9.8	8.5	7.8	7.5
8°	114.0	87.9	48.5	23.1	12.4	9.1	8.1	7.2	6.8
9°	152.4	113.6	55.7	24.1	11.7	8.8	7.5	6.8	6.5
10°	206.1	148.8	63.8	24.7	11.4	8.1	6.8	6.5	6.2
11°	259.5	192.4	73.9	25.1	10.7	7.2	6.8	6.5	6.2
12°	347.4	234.1	82.7	25.1	10.1	6.8	6.2	5.9	5.5
13°	451.6	305.8	95.4	25.4	9.1	6.5	5.9	5.5	5.5
14°	543.5	369.9	103.9	25.4	8.8	5.9	5.5	5.5	5.2
15°	653.2	432.4	115.3	25.1	8.1	5.5	5.5	5.2	4.9
16°	768.1	526.2	130.6	24.4	7.5	4.9	5.2	4.6	4.2
17°	920.5	603.7	142.3	23.8	6.8	4.6	4.6	4.6	4.2
18°	1059.9	697.8	151.7	23.1	6.2	4.6	4.2	4.2	3.9
19°	1209.4	773.4	161.2	22.1	5.5	3.9	3.9	3.9	3.6
20°	1309.7	866.2	171.6	21.2	4.9	3.6	3.9	3.6	3.3
21°	1436.7	949.2	175.5	20.2	4.2	3.3	3.3	3.3	2.9
22.5°	1555.5	1059.6	181.7	18.2	3.6	2.6	2.9	2.6	2.6
23°	1573.7	1083.0	181.7	17.6	3.3	2.6	2.9	2.6	2.6
24°	1634.3	1147.2	184.0	16.3	2.6	2.3	2.6	2.3	2.3
25°	1670.1	1198.0	182.3	15.0	2.3	2.3	2.3	2.3	2.0
26°	1684.8	1212.0	178.4	14.0	2.0	2.0	2.3	2.0	1.6
27°	1700.1	1243.9	173.6	12.7	1.6	2.0	2.0	2.0	1.6
28°	1710.8	1247.8	168.7	11.7	1.3	1.6	2.0	1.6	1.6
29°	1714.4	1253.0	162.8	10.4	1.0	1.3	1.6	1.3	1.3
30°	1711.8	1252.0	154.3	9.4	1.0	1.3	1.3	1.3	1.0
32.5°	1662.0	1224.0	130.9	6.8	0.7	1.0	1.0	1.0	0.7
35°	1547.4	1159.5	106.8	4.6	0.7	0.7	0.7	0.7	0.3
37.5°	1456.8	1063.2	81.7	2.6	0.3	0.7	0.7	0.3	0.0
40°	1351.0	923.5	58.9	1.6	0.3	0.3	0.3	0.0	0.0
42.5°	1243.6	781.2	40.1	0.7	0.0	0.3	0.3	0.0	0.0
45°	1102.2	598.2	26.4	0.3	0.0	0.3	0.0	0.0	0.0
47.5°	927.1	434.4	17.9	0.0	0.0	0.3	0.0	0.0	0.0
50°	711.5	243.2	10.1	0.0	0.3	0.3	0.3	0.0	0.0
52.5°	468.9	121.5	3.9	0.0	0.3	0.3	0.3	0.0	0.0
55°	227.6	65.1	1.3	0.3	0.3	0.7	0.3	0.0	0.0
57.5°	107.5	25.4	0.3	0.3	0.7	0.7	0.3	0.0	0.0
60°	30.6	5.2	0.3	0.3	0.7	0.7	0.3	0.3	0.0
62.5°	4.2	0.7	0.3	0.7	0.7	0.7	0.7	0.3	0.0
65°	1.3	0.3	0.3	0.7	0.7	0.7	0.7	0.3	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.3	0.3	0.3	0.7	0.7	0.7	0.7	0.3	0.0
70°	0.0	0.3	0.3	0.7	0.7	0.7	0.7	0.3	0.0
72.5°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
75°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.3
77.5°	0.0	0.3	0.7	0.7	1.0	0.7	0.7	0.3	0.0
80°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
82.5°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
85°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
87.5°	0.0	0.3	0.7	0.7	0.7	0.7	0.3	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)