

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: P492309

Luminaire Tested: **LDA2B058040R35D010 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: P492309  
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: LDA2B058040R35D010 2LBD1WMH-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**

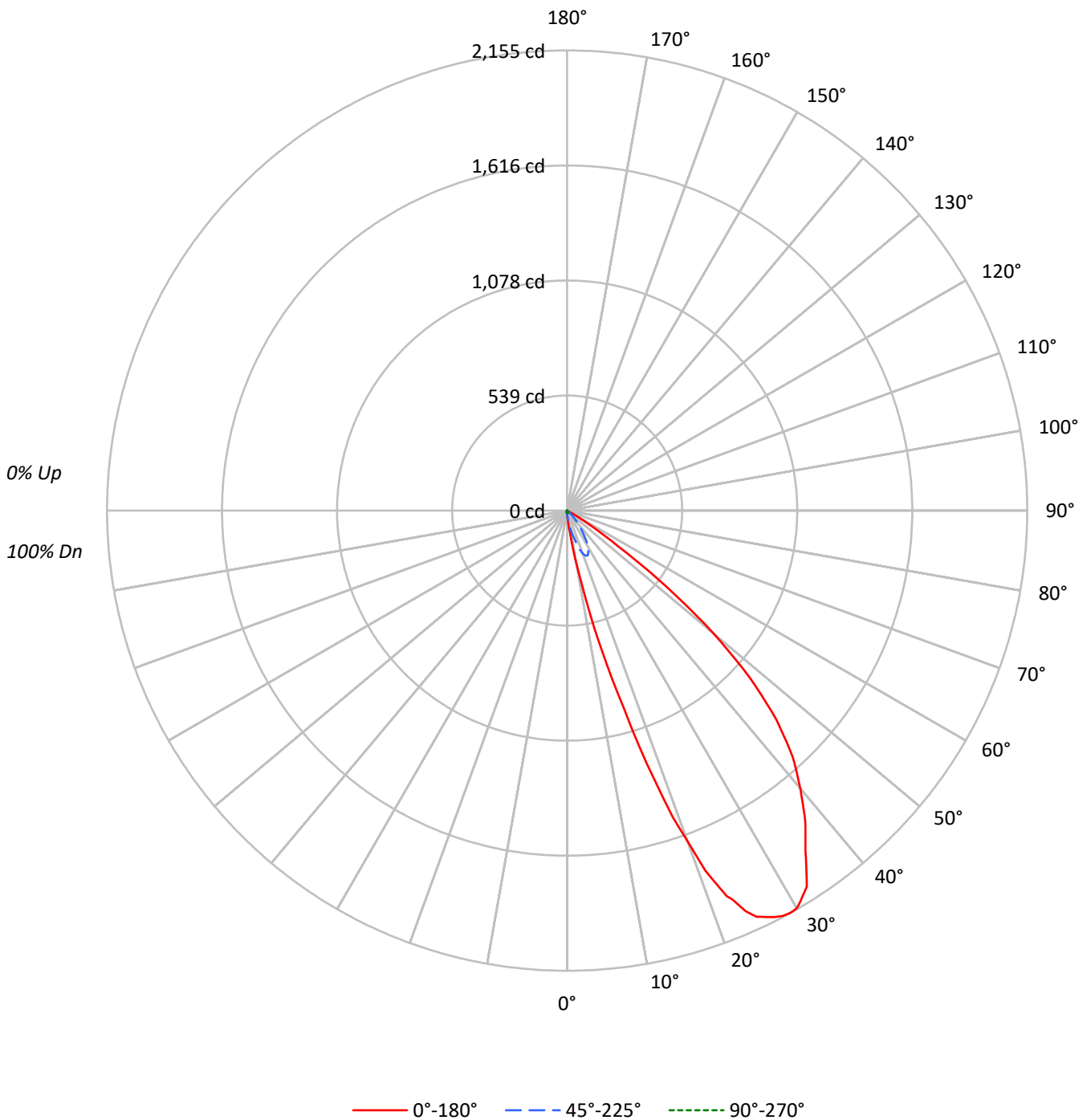
Lumens per Lamp: N/A  
Luminaire Lumens: 581.4 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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					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	47	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°	9670	9670	9670
5°	30408	8518	5250
10°	129802	7164	3908
15°	419339	5210	3116
20°	864191	3203	2153
25°	1142621	1579	1361
30°	1225621	684	684
35°	1171321	482	241
40°	1093577	258	0
45°	966550	0	0
50°	686330	307	0
55°	246089	344	0
60°	37989	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°	3.5	0.6
10°-20°	47.1	8.1
20°-30°	157.5	27.1
30°-40°	198.4	34.1
40°-50°	140.4	24.1
50°-60°	32.4	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°	208.0	35.8
0°-40°	406.5	69.9
0°-60°	579.2	99.6
0°-90°	581.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	581.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	61	40	17	12	11	11
15°	821	145	10	7	6	271
25°	2099	229	3	3	2	946
35°	1945	134	1	1	0	1217
45°	1385	33	0	0	0	1039
55°	286	2	0	0	0	324
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°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
1°	24.6	23.7	22.5	20.5	18.4	17.6	17.6	16.4	16.4
2°	29.5	28.2	25.8	21.7	18.4	16.4	15.6	14.7	14.3
3°	38.1	34.8	29.5	23.3	18.0	15.6	15.1	13.1	13.1
4°	47.5	44.2	34.0	24.6	17.6	14.7	13.1	12.3	11.9
5°	61.4	54.0	40.1	25.8	17.2	13.9	12.3	11.0	10.6
6°	79.4	69.2	45.8	27.0	16.8	13.1	11.5	10.2	9.8
7°	99.9	85.9	52.8	28.2	16.0	12.3	10.6	9.8	9.4
8°	143.2	110.5	61.0	29.1	15.6	11.5	10.2	9.0	8.6
9°	191.5	142.8	70.0	30.3	14.7	11.0	9.4	8.6	8.2
10°	259.1	187.0	80.2	31.1	14.3	10.2	8.6	8.2	7.8
11°	326.2	241.9	92.9	31.5	13.5	9.0	8.6	8.2	7.8
12°	436.7	294.3	103.9	31.5	12.7	8.6	7.8	7.4	7.0
13°	567.6	384.3	119.9	31.9	11.5	8.2	7.4	7.0	7.0
14°	683.0	464.9	130.6	31.9	11.0	7.4	7.0	7.0	6.5
15°	821.0	543.5	144.9	31.5	10.2	7.0	7.0	6.5	6.1
16°	965.4	661.3	164.1	30.7	9.4	6.1	6.5	5.7	5.3
17°	1157.0	758.8	178.8	29.9	8.6	5.7	5.7	5.7	5.3
18°	1332.1	877.0	190.7	29.1	7.8	5.7	5.3	5.3	4.9
19°	1520.0	972.0	202.6	27.8	7.0	4.9	4.9	4.9	4.5
20°	1646.0	1088.6	215.7	26.6	6.1	4.5	4.9	4.5	4.1
21°	1805.6	1193.0	220.6	25.4	5.3	4.1	4.1	4.1	3.7
22.5°	1955.0	1331.7	228.4	22.9	4.5	3.3	3.7	3.3	3.3
23°	1977.9	1361.2	228.4	22.1	4.1	3.3	3.7	3.3	3.3
24°	2054.0	1441.8	231.2	20.5	3.3	2.9	3.3	2.9	2.9
25°	2099.0	1505.6	229.2	18.8	2.9	2.9	2.9	2.9	2.5
26°	2117.5	1523.2	224.3	17.6	2.5	2.5	2.9	2.5	2.0
27°	2136.7	1563.3	218.1	16.0	2.0	2.5	2.5	2.5	2.0
28°	2150.2	1568.2	212.0	14.7	1.6	2.0	2.5	2.0	2.0
29°	2154.7	1574.8	204.6	13.1	1.2	1.6	2.0	1.6	1.6
30°	2151.4	1573.6	194.0	11.9	1.2	1.6	1.6	1.6	1.2
32.5°	2088.8	1538.4	164.5	8.6	0.8	1.2	1.2	1.2	0.8
35°	1944.8	1457.3	134.2	5.7	0.8	0.8	0.8	0.8	0.4
37.5°	1831.0	1336.2	102.7	3.3	0.4	0.8	0.8	0.4	0.0
40°	1698.0	1160.6	74.1	2.0	0.4	0.4	0.4	0.0	0.0
42.5°	1562.9	981.8	50.3	0.8	0.0	0.4	0.4	0.0	0.0
45°	1385.3	751.8	33.1	0.4	0.0	0.4	0.0	0.0	0.0
47.5°	1165.1	545.9	22.5	0.0	0.0	0.4	0.0	0.0	0.0
50°	894.2	305.7	12.7	0.0	0.4	0.4	0.4	0.0	0.0
52.5°	589.3	152.7	4.9	0.0	0.4	0.4	0.4	0.0	0.0
55°	286.1	81.9	1.6	0.4	0.4	0.8	0.4	0.0	0.0
57.5°	135.1	31.9	0.4	0.4	0.8	0.8	0.4	0.0	0.0
60°	38.5	6.5	0.4	0.4	0.8	0.8	0.4	0.4	0.0
62.5°	5.3	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)