

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: P493521

Luminaire Tested: **LDA2B059040R20D010 2LBD1WHH-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: P493521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/8/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B059040R20D010 2LBD1WHH-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

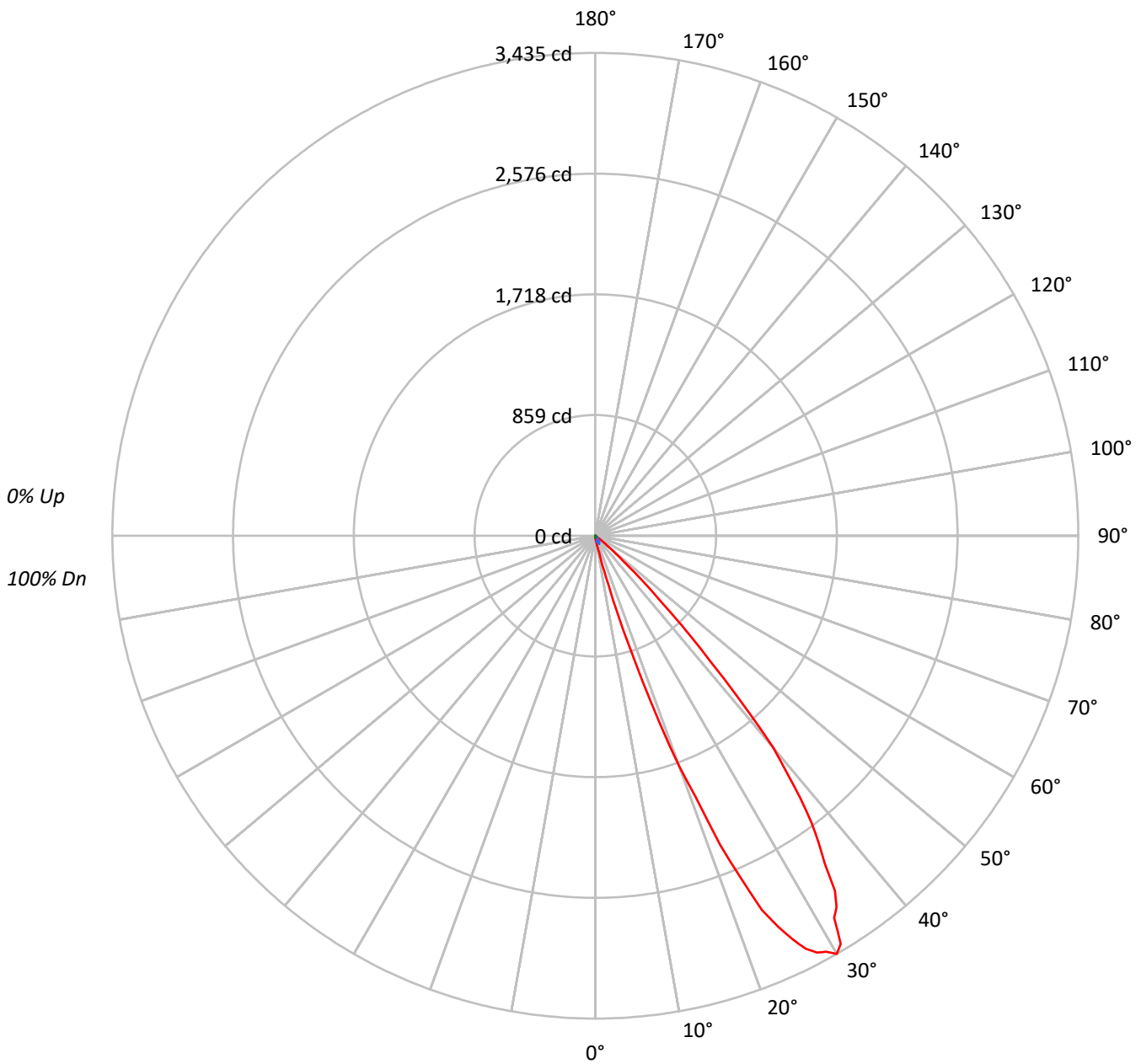
Lumens per Lamp: N/A
Luminaire Lumens: 433.8 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): 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



— 0°-180° - - 45°-225° - - - 90°-270°



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43					43			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	6907	6907	6907
5°	13174	6092	4457
10°	31511	5310	3006
15°	183467	4239	1175
20°	915065	2625	368
25°	1668532	925	0
30°	1956982	0	0
35°	1712834	0	0
40°	1264891	0	0
45°	455959	0	0
50°	94944	0	0
55°	21762	258	0
60°	6907	296	0
65°	1518	817	0
70°	0	1010	433
75°	0	1334	0
80°	0	1989	0
85°	0	3962	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.4
10°-20°	23.8	5.5
20°-30°	160.6	37.0
30°-40°	187.7	43.3
40°-50°	54.7	12.6
50°-60°	3.6	0.8
60°-70°	0.7	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°	186.0	42.9
0°-40°	373.7	86.1
0°-60°	432.1	99.6
0°-90°	433.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	433.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	27	19	12	10	9	4
15°	359	41	8	4	2	187
25°	3065	63	2	0	0	1357
35°	2844	34	0	0	0	1747
45°	654	7	0	0	0	602
55°	25	1	0	0	0	32
65°	1	1	1	1	0	2
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°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
2.5°	18.0	18.0	16.0	14.3	13.0	12.3	12.0	11.3	11.0
5°	26.6	23.3	19.3	15.0	12.3	11.3	10.3	9.3	9.0
7.5°	38.9	33.9	23.3	15.3	11.6	10.0	9.0	8.0	7.3
10°	62.9	48.9	28.6	15.3	10.6	8.6	7.3	6.3	6.0
12.5°	116.1	74.8	34.3	15.0	9.6	7.3	5.7	5.0	4.0
15°	359.2	155.0	40.6	14.3	8.3	5.7	4.3	2.7	2.3
17.5°	928.8	361.8	45.2	12.6	6.7	4.0	2.0	1.7	1.7
20°	1742.9	656.1	51.9	11.0	5.0	2.7	1.3	1.0	0.7
21°	1988.3	802.8	55.2	10.3	4.3	1.7	1.0	0.3	0.3
22°	2369.7	962.7	57.9	9.6	3.7	1.0	0.7	0.3	0.0
23°	2641.4	1064.8	60.5	8.6	2.7	1.0	0.3	0.0	0.0
24°	2913.1	1194.8	62.2	8.0	2.3	0.7	0.3	0.0	0.0
25°	3065.1	1303.3	62.9	7.3	1.7	0.3	0.0	0.0	0.0
26°	3190.1	1375.7	63.2	6.7	1.0	0.0	0.0	0.0	0.0
27°	3297.2	1459.9	62.5	6.0	1.0	0.0	0.0	0.0	0.0
28°	3358.1	1473.9	61.5	5.3	0.3	0.0	0.0	0.0	0.0
29°	3384.3	1456.9	58.5	4.7	0.3	0.0	0.0	0.0	0.0
30°	3435.2	1440.9	55.5	4.3	0.0	0.0	0.0	0.0	0.0
31°	3388.3	1388.1	51.9	3.7	0.0	0.0	0.0	0.0	0.0
32°	3204.8	1343.5	47.6	3.0	0.0	0.0	0.0	0.0	0.0
33°	3149.9	1252.0	42.9	2.7	0.0	0.0	0.0	0.0	0.0
34°	3046.5	1116.0	38.9	2.3	0.0	0.0	0.0	0.0	0.0
35°	2843.9	1003.6	33.9	2.0	0.0	0.0	0.0	0.0	0.0
36°	2702.6	875.3	29.6	1.7	0.0	0.0	0.0	0.0	0.0
37°	2554.6	763.2	26.3	1.3	0.0	0.0	0.0	0.0	0.0
38°	2370.7	645.5	22.3	1.0	0.0	0.0	0.0	0.0	0.0
39°	2156.6	533.4	19.0	1.0	0.0	0.0	0.0	0.0	0.0
40°	1964.0	430.0	16.3	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	1212.1	245.4	9.6	0.7	0.0	0.0	0.0	0.0	0.0
45°	653.5	149.0	7.0	0.3	0.0	0.0	0.0	0.0	0.0
47.5°	301.0	69.5	5.0	0.3	0.0	0.0	0.0	0.0	0.0
50°	123.7	30.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	44.6	17.3	2.3	0.0	0.0	0.3	0.0	0.0	0.0
55°	25.3	10.0	1.3	0.3	0.3	0.3	0.3	0.0	0.0
57.5°	12.0	5.7	0.3	0.3	0.3	0.3	0.3	0.0	0.0
60°	7.0	3.0	0.3	0.3	0.3	0.7	0.3	0.0	0.0
62.5°	3.3	1.0	0.3	0.7	0.7	0.7	0.7	0.3	0.0
65°	1.3	0.3	0.7	0.7	0.7	1.0	0.7	0.3	0.0
67.5°	0.3	0.3	0.7	0.7	0.7	1.0	0.7	0.3	0.3
70°	0.0	0.3	0.7	0.7	0.7	1.0	0.7	0.3	0.3
72.5°	0.0	0.3	0.7	0.7	0.7	1.0	0.7	0.3	0.3
75°	0.0	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.0
77.5°	0.0	0.3	0.7	0.7	0.7	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



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.3	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)