

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: P496331

Luminaire Tested: **LDA2B109040R20D010 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: P496331
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: LDA2B109040R20D010 2LBD1WMH-30DEG TILT
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

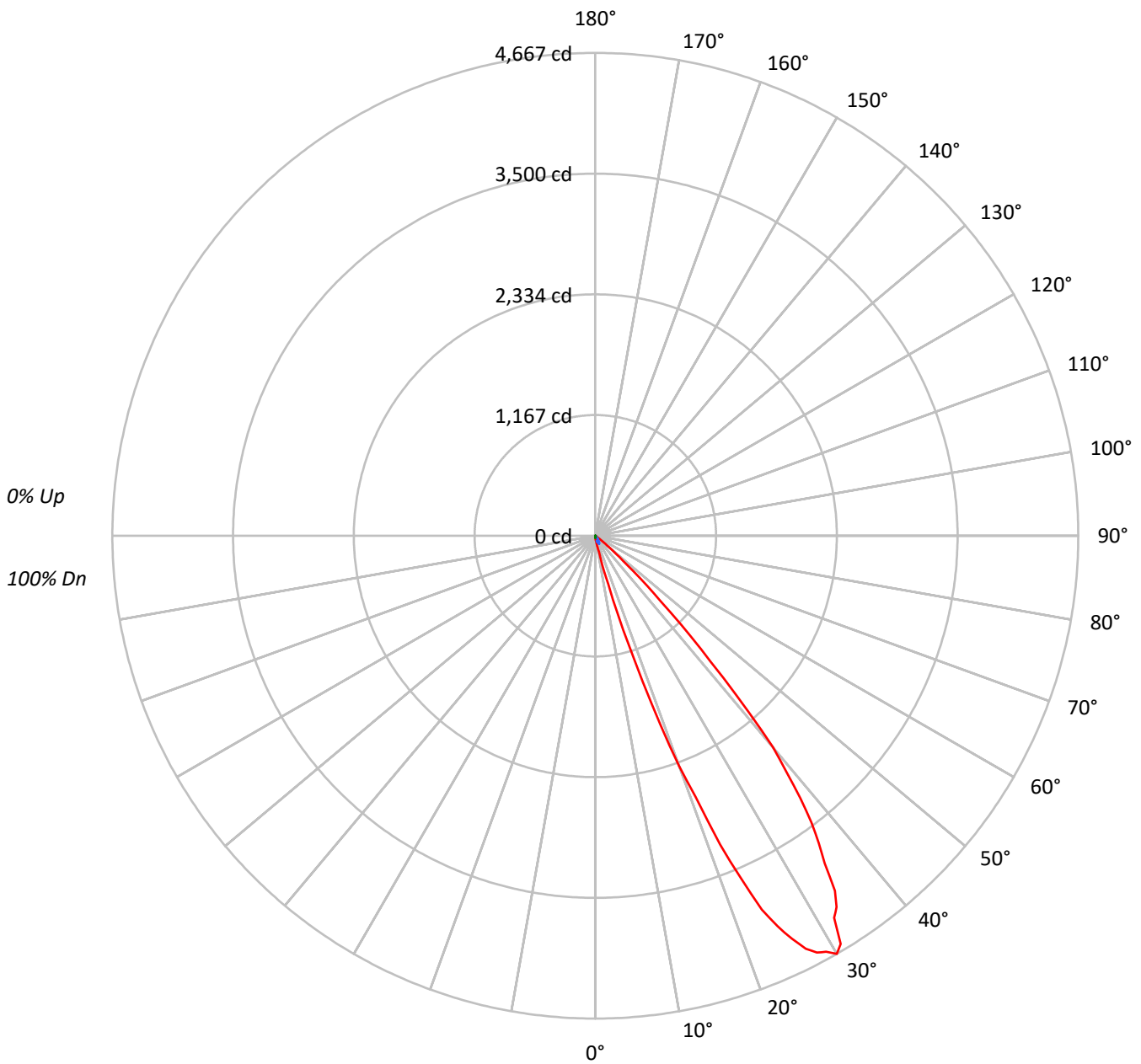
Lumens per Lamp: N/A
Luminaire Lumens: 589.4 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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: P496331

CATALOG NUMBER: LDA2B109040R20D010 2LBD1WMH-30DEG TILT

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P496331

CATALOG NUMBER: LDA2B109040R20D010 2LBD1WMH-30DEG TILT

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°	9374	9374	9374
5°	17878	8271	6042
10°	42783	7264	4058
15°	249203	5772	1634
20°	1243153	3570	473
25°	2266788	1252	0
30°	2658663	0	0
35°	2327043	0	0
40°	1718422	0	0
45°	619435	0	0
50°	129023	0	0
55°	29503	430	0
60°	9374	493	0
65°	2101	1051	0
70°	0	1298	721
75°	0	1716	0
80°	0	2557	0
85°	0	5095	0



TEST NUMBER: P496331

CATALOG NUMBER: LDA2B109040R20D010 2LBD1WMH-30DEG TILT

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.4
10°-20°	32.4	5.5
20°-30°	218.2	37.0
30°-40°	254.9	43.3
40°-50°	74.3	12.6
50°-60°	5.0	0.8
60°-70°	0.9	0.2
70°-80°	0.8	0.1
80°-90°	0.6	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°	252.7	42.9
0°-40°	507.7	86.1
0°-60°	587.0	99.6
0°-90°	589.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	589.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	36	26	17	14	12	5
15°	488	55	11	6	3	255
25°	4164	85	2	0	0	1844
35°	3864	46	0	0	0	2374
45°	888	10	0	0	0	818
55°	34	2	0	0	0	44
65°	2	1	1	1	0	3
75°	0	1	1	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P496331

CATALOG NUMBER: LDA2B109040R20D010 2LBD1WMH-30DEG TILT

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
2.5°	24.4	24.4	21.7	19.4	17.6	16.7	16.3	15.4	14.9
5°	36.1	31.6	26.2	20.3	16.7	15.4	14.0	12.7	12.2
7.5°	52.9	46.1	31.6	20.8	15.8	13.6	12.2	10.8	9.9
10°	85.4	66.4	38.9	20.8	14.5	11.7	9.9	8.6	8.1
12.5°	157.7	101.7	46.5	20.3	13.1	9.9	7.7	6.8	5.4
15°	487.9	210.5	55.1	19.4	11.3	7.7	5.9	3.6	3.2
17.5°	1261.8	491.5	61.4	17.2	9.0	5.4	2.7	2.3	2.3
20°	2367.8	891.4	70.5	14.9	6.8	3.6	1.8	1.4	0.9
21°	2701.2	1090.6	75.0	14.0	5.9	2.3	1.4	0.5	0.5
22°	3219.4	1307.9	78.6	13.1	5.0	1.4	0.9	0.5	0.0
23°	3588.5	1446.6	82.2	11.7	3.6	1.4	0.5	0.0	0.0
24°	3957.6	1623.3	84.5	10.8	3.2	0.9	0.5	0.0	0.0
25°	4164.1	1770.5	85.4	9.9	2.3	0.5	0.0	0.0	0.0
26°	4334.0	1869.0	85.8	9.0	1.4	0.0	0.0	0.0	0.0
27°	4479.5	1983.3	84.9	8.1	1.4	0.0	0.0	0.0	0.0
28°	4562.1	2002.3	83.6	7.2	0.5	0.0	0.0	0.0	0.0
29°	4597.8	1979.3	79.5	6.3	0.5	0.0	0.0	0.0	0.0
30°	4666.9	1957.6	75.4	5.9	0.0	0.0	0.0	0.0	0.0
31°	4603.2	1885.8	70.5	5.0	0.0	0.0	0.0	0.0	0.0
32°	4353.9	1825.2	64.6	4.1	0.0	0.0	0.0	0.0	0.0
33°	4279.3	1701.0	58.3	3.6	0.0	0.0	0.0	0.0	0.0
34°	4138.8	1516.2	52.9	3.2	0.0	0.0	0.0	0.0	0.0
35°	3863.7	1363.5	46.1	2.7	0.0	0.0	0.0	0.0	0.0
36°	3671.7	1189.1	40.2	2.3	0.0	0.0	0.0	0.0	0.0
37°	3470.6	1036.8	35.7	1.8	0.0	0.0	0.0	0.0	0.0
38°	3220.8	876.9	30.3	1.4	0.0	0.0	0.0	0.0	0.0
39°	2929.8	724.7	25.8	1.4	0.0	0.0	0.0	0.0	0.0
40°	2668.2	584.2	22.1	0.9	0.0	0.0	0.0	0.0	0.0
42.5°	1646.8	333.4	13.1	0.9	0.0	0.0	0.0	0.0	0.0
45°	887.8	202.4	9.5	0.5	0.0	0.0	0.0	0.0	0.0
47.5°	408.9	94.4	6.8	0.5	0.0	0.0	0.0	0.0	0.0
50°	168.1	42.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	60.5	23.5	3.2	0.0	0.0	0.5	0.0	0.0	0.0
55°	34.3	13.6	1.8	0.5	0.5	0.5	0.5	0.0	0.0
57.5°	16.3	7.7	0.5	0.5	0.5	0.5	0.5	0.0	0.0
60°	9.5	4.1	0.5	0.5	0.5	0.9	0.5	0.0	0.0
62.5°	4.5	1.4	0.5	0.9	0.9	0.9	0.9	0.5	0.0
65°	1.8	0.5	0.9	0.9	0.9	1.4	0.9	0.5	0.0
67.5°	0.5	0.5	0.9	0.9	0.9	1.4	0.9	0.5	0.5
70°	0.0	0.5	0.9	0.9	0.9	1.4	0.9	0.5	0.5
72.5°	0.0	0.5	0.9	0.9	0.9	1.4	0.9	0.5	0.5
75°	0.0	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.0
77.5°	0.0	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.0
80°	0.0	0.5	0.9	0.9	0.9	0.9	0.9	0.5	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	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.0
85°	0.0	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.0
87.5°	0.0	0.5	0.9	0.9	0.9	0.9	0.5	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)