

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: P496547

Luminaire Tested: **LDA2B109050R20D010 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: P496547
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: LDA2B109050R20D010 2LBD1WMH-30DEG TILT
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

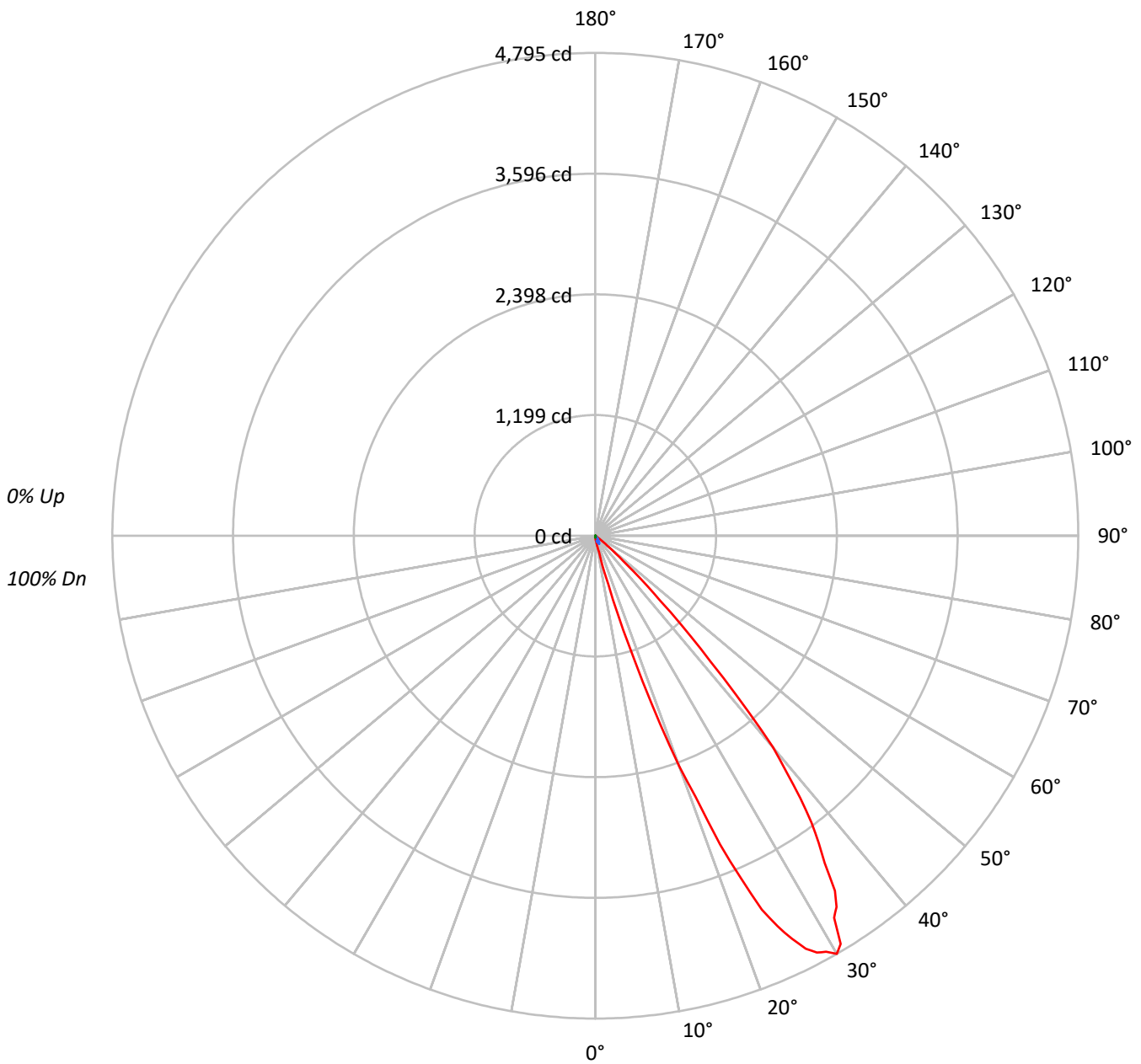
Lumens per Lamp: N/A
Luminaire Lumens: 605.4 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

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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°	9621	9621	9621
5°	18374	8518	6191
10°	43935	7464	4208
15°	256047	5925	1634
20°	1277175	3675	473
25°	2328791	1252	0
30°	2731412	0	0
35°	2390704	0	0
40°	1765437	0	0
45°	636320	0	0
50°	132553	0	0
55°	30363	430	0
60°	9571	493	0
65°	2218	1051	0
70°	0	1298	721
75°	0	1716	0
80°	0	2557	0
85°	0	5095	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.4
10°-20°	33.3	5.5
20°-30°	224.2	37.0
30°-40°	261.9	43.3
40°-50°	76.4	12.6
50°-60°	5.1	0.8
60°-70°	1.0	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°	259.7	42.9
0°-40°	521.6	86.2
0°-60°	603.1	99.6
0°-90°	605.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	605.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	37	27	17	14	12	5
15°	501	57	12	6	3	262
25°	4278	88	2	0	0	1894
35°	3969	47	0	0	0	2439
45°	912	10	0	0	0	840
55°	35	2	0	0	0	45
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
2.5°	25.1	25.1	22.3	20.0	18.1	17.2	16.7	15.8	15.3
5°	37.1	32.5	26.9	20.9	17.2	15.8	14.4	13.0	12.5
7.5°	54.3	47.3	32.5	21.4	16.2	13.9	12.5	11.1	10.2
10°	87.7	68.2	39.9	21.4	14.9	12.1	10.2	8.8	8.4
12.5°	162.0	104.4	47.8	20.9	13.5	10.2	7.9	7.0	5.6
15°	501.3	216.3	56.6	20.0	11.6	7.9	6.0	3.7	3.2
17.5°	1296.4	505.0	63.1	17.6	9.3	5.6	2.8	2.3	2.3
20°	2432.6	915.8	72.4	15.3	7.0	3.7	1.9	1.4	0.9
21°	2775.1	1120.4	77.0	14.4	6.0	2.3	1.4	0.5	0.5
22°	3307.5	1343.7	80.8	13.5	5.1	1.4	0.9	0.5	0.0
23°	3686.7	1486.2	84.5	12.1	3.7	1.4	0.5	0.0	0.0
24°	4065.9	1667.7	86.8	11.1	3.2	0.9	0.5	0.0	0.0
25°	4278.0	1819.0	87.7	10.2	2.3	0.5	0.0	0.0	0.0
26°	4452.6	1920.2	88.2	9.3	1.4	0.0	0.0	0.0	0.0
27°	4602.0	2037.6	87.3	8.4	1.4	0.0	0.0	0.0	0.0
28°	4687.0	2057.1	85.9	7.4	0.5	0.0	0.0	0.0	0.0
29°	4723.6	2033.4	81.7	6.5	0.5	0.0	0.0	0.0	0.0
30°	4794.6	2011.1	77.5	6.0	0.0	0.0	0.0	0.0	0.0
31°	4729.2	1937.3	72.4	5.1	0.0	0.0	0.0	0.0	0.0
32°	4473.0	1875.2	66.4	4.2	0.0	0.0	0.0	0.0	0.0
33°	4396.4	1747.5	59.9	3.7	0.0	0.0	0.0	0.0	0.0
34°	4252.0	1557.7	54.3	3.2	0.0	0.0	0.0	0.0	0.0
35°	3969.4	1400.8	47.3	2.8	0.0	0.0	0.0	0.0	0.0
36°	3772.1	1221.6	41.3	2.3	0.0	0.0	0.0	0.0	0.0
37°	3565.6	1065.2	36.7	1.9	0.0	0.0	0.0	0.0	0.0
38°	3308.9	900.9	31.1	1.4	0.0	0.0	0.0	0.0	0.0
39°	3010.0	744.5	26.5	1.4	0.0	0.0	0.0	0.0	0.0
40°	2741.2	600.1	22.7	0.9	0.0	0.0	0.0	0.0	0.0
42.5°	1691.8	342.5	13.5	0.9	0.0	0.0	0.0	0.0	0.0
45°	912.0	207.9	9.7	0.5	0.0	0.0	0.0	0.0	0.0
47.5°	420.1	97.0	7.0	0.5	0.0	0.0	0.0	0.0	0.0
50°	172.7	43.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	62.2	24.1	3.2	0.0	0.0	0.5	0.0	0.0	0.0
55°	35.3	13.9	1.9	0.5	0.5	0.5	0.5	0.0	0.0
57.5°	16.7	7.9	0.5	0.5	0.5	0.5	0.5	0.0	0.0
60°	9.7	4.2	0.5	0.5	0.5	0.9	0.5	0.0	0.0
62.5°	4.6	1.4	0.5	0.9	0.9	0.9	0.9	0.5	0.0
65°	1.9	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)