

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: P495333

Luminaire Tested: **LDA2B108050R35D010 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: P495333
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: LDA2B108050R35D010 2LBD1WMH-30DEG TILT
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

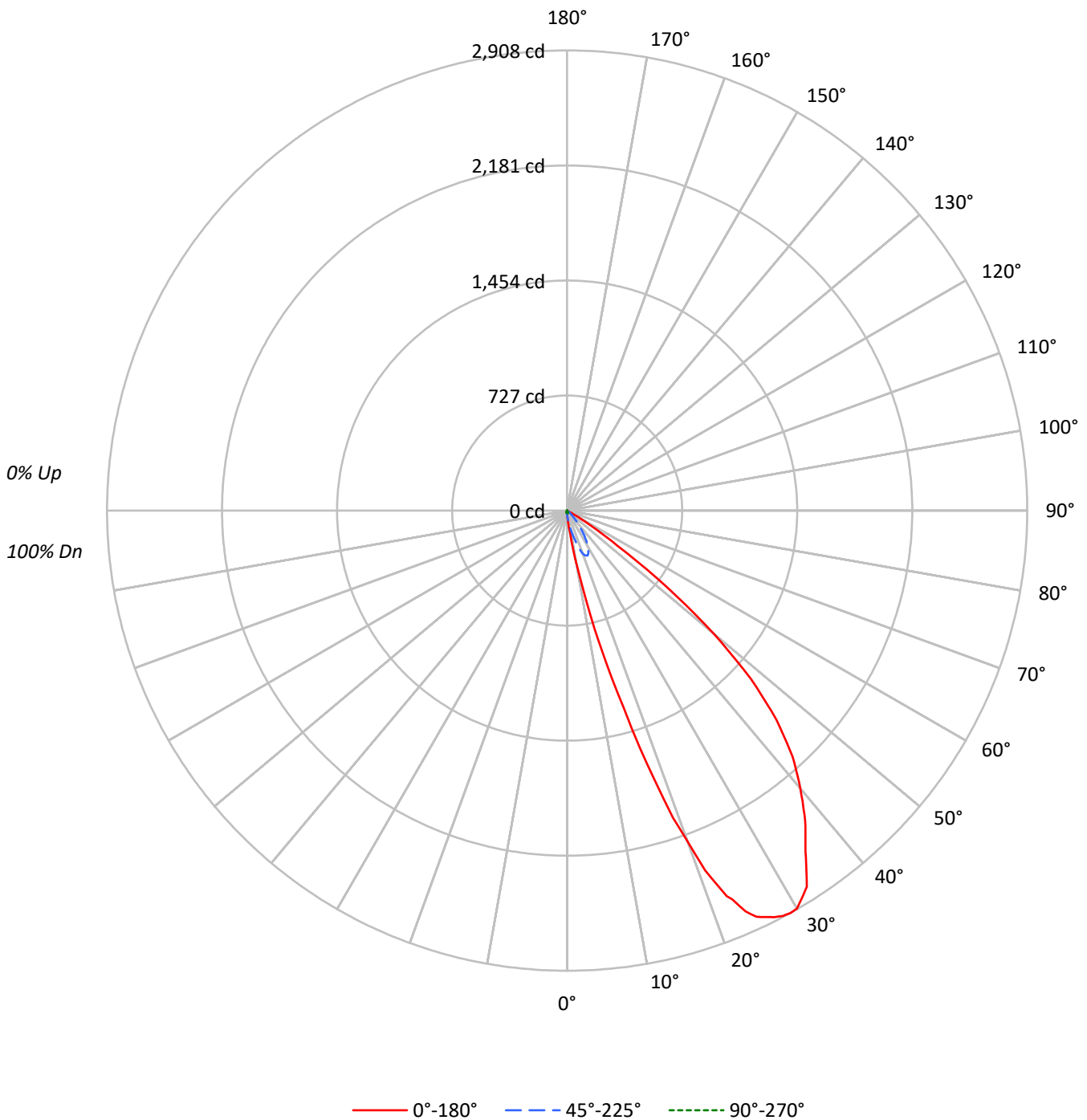
Lumens per Lamp: N/A
Luminaire Lumens: 784.9 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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





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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	76	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°	13074	13074	13074
5°	41056	11490	7132
10°	175140	9669	5260
15°	565928	7049	4239
20°	1166395	4358	2888
25°	1542239	2123	1796
30°	1654252	968	968
35°	1580874	663	361
40°	1476006	386	0
45°	1304595	0	0
50°	926338	461	0
55°	332104	516	0
60°	51211	1085	0
65°	2568	1284	0
70°	0	1587	0
75°	0	2097	1144
80°	0	3125	0
85°	0	6227	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.6
10°-20°	63.5	8.1
20°-30°	212.6	27.1
30°-40°	267.8	34.1
40°-50°	189.5	24.1
50°-60°	43.7	5.6
60°-70°	1.4	0.2
70°-80°	0.9	0.1
80°-90°	0.8	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°	280.8	35.8
0°-40°	548.6	69.9
0°-60°	781.8	99.6
0°-90°	784.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	784.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	83	54	23	17	14	15
15°	1108	196	14	9	8	365
25°	2833	309	4	4	3	1277
35°	2625	181	1	1	1	1643
45°	1870	45	0	0	0	1402
55°	386	2	1	1	0	437
65°	2	1	1	1	0	9
75°	0	1	1	1	1	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°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
1°	33.1	32.0	30.4	27.6	24.9	23.8	23.8	22.1	22.1
2°	39.8	38.1	34.8	29.3	24.9	22.1	21.0	19.9	19.3
3°	51.4	47.0	39.8	31.5	24.3	21.0	20.4	17.7	17.7
4°	64.1	59.7	45.8	33.1	23.8	19.9	17.7	16.6	16.0
5°	82.9	72.9	54.1	34.8	23.2	18.8	16.6	14.9	14.4
6°	107.2	93.3	61.9	36.5	22.6	17.7	15.5	13.8	13.3
7°	134.8	116.0	71.3	38.1	21.5	16.6	14.4	13.3	12.7
8°	193.3	149.1	82.3	39.2	21.0	15.5	13.8	12.2	11.6
9°	258.5	192.8	94.5	40.9	19.9	14.9	12.7	11.6	11.0
10°	349.6	252.4	108.3	42.0	19.3	13.8	11.6	11.0	10.5
11°	440.2	326.4	125.4	42.5	18.2	12.2	11.6	11.0	10.5
12°	589.4	397.2	140.3	42.5	17.1	11.6	10.5	9.9	9.4
13°	766.1	518.7	161.8	43.1	15.5	11.0	9.9	9.4	9.4
14°	921.9	627.5	176.2	43.1	14.9	9.9	9.4	9.4	8.8
15°	1108.0	733.5	195.5	42.5	13.8	9.4	9.4	8.8	8.3
16°	1303.0	892.6	221.5	41.4	12.7	8.3	8.8	7.7	7.2
17°	1561.5	1024.1	241.4	40.3	11.6	7.7	7.7	7.7	7.2
18°	1798.0	1183.7	257.4	39.2	10.5	7.7	7.2	7.2	6.6
19°	2051.5	1311.9	273.4	37.6	9.4	6.6	6.6	6.6	6.1
20°	2221.6	1469.3	291.1	35.9	8.3	6.1	6.6	6.1	5.5
21°	2437.0	1610.1	297.7	34.2	7.2	5.5	5.5	5.5	5.0
22.5°	2638.7	1797.4	308.2	30.9	6.1	4.4	5.0	4.4	4.4
23°	2669.6	1837.2	308.2	29.8	5.5	4.4	5.0	4.4	4.4
24°	2772.3	1946.0	312.1	27.6	4.4	3.9	4.4	3.9	3.9
25°	2833.1	2032.2	309.3	25.4	3.9	3.9	3.9	3.9	3.3
26°	2857.9	2055.9	302.7	23.8	3.3	3.3	3.9	3.3	2.8
27°	2883.9	2110.0	294.4	21.5	2.8	3.3	3.3	3.3	2.8
28°	2902.1	2116.7	286.1	19.9	2.2	2.8	3.3	2.8	2.8
29°	2908.2	2125.5	276.2	17.7	1.7	2.2	2.8	2.2	2.2
30°	2903.8	2123.9	261.8	16.0	1.7	2.2	2.2	2.2	1.7
32.5°	2819.3	2076.3	222.1	11.6	1.1	1.7	1.7	1.7	1.1
35°	2624.8	1967.0	181.2	7.7	1.1	1.1	1.1	1.1	0.6
37.5°	2471.3	1803.5	138.6	4.4	0.6	1.1	1.1	0.6	0.0
40°	2291.8	1566.5	100.0	2.8	0.6	0.6	0.6	0.0	0.0
42.5°	2109.5	1325.1	67.9	1.1	0.0	0.6	0.6	0.0	0.0
45°	1869.8	1014.7	44.7	0.6	0.0	0.6	0.0	0.0	0.0
47.5°	1572.6	736.9	30.4	0.0	0.0	0.6	0.0	0.0	0.0
50°	1206.9	412.6	17.1	0.0	0.6	0.6	0.6	0.0	0.0
52.5°	795.4	206.0	6.6	0.0	0.6	0.6	0.6	0.0	0.0
55°	386.1	110.5	2.2	0.6	0.6	1.1	0.6	0.0	0.0
57.5°	182.3	43.1	0.6	0.6	1.1	1.1	0.6	0.0	0.0
60°	51.9	8.8	0.6	0.6	1.1	1.1	0.6	0.6	0.0
62.5°	7.2	1.1	0.6	1.1	1.1	1.1	1.1	0.6	0.0
65°	2.2	0.6	0.6	1.1	1.1	1.1	1.1	0.6	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.6	0.6	0.6	1.1	1.1	1.1	1.1	0.6	0.0
70°	0.0	0.6	0.6	1.1	1.1	1.1	1.1	0.6	0.0
72.5°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
75°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.6
77.5°	0.0	0.6	1.1	1.1	1.7	1.1	1.1	0.6	0.0
80°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
82.5°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
85°	0.0	0.6	1.1	1.1	1.1	1.1	1.1	0.6	0.0
87.5°	0.0	0.6	1.1	1.1	1.1	1.1	0.6	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)