

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: P495984

Luminaire Tested: **LDA2B109030R35D010 2LBDC1MMS-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: P495984
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: LDA2B109030R35D010 2LBDC1MMS-30DEG TILT
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

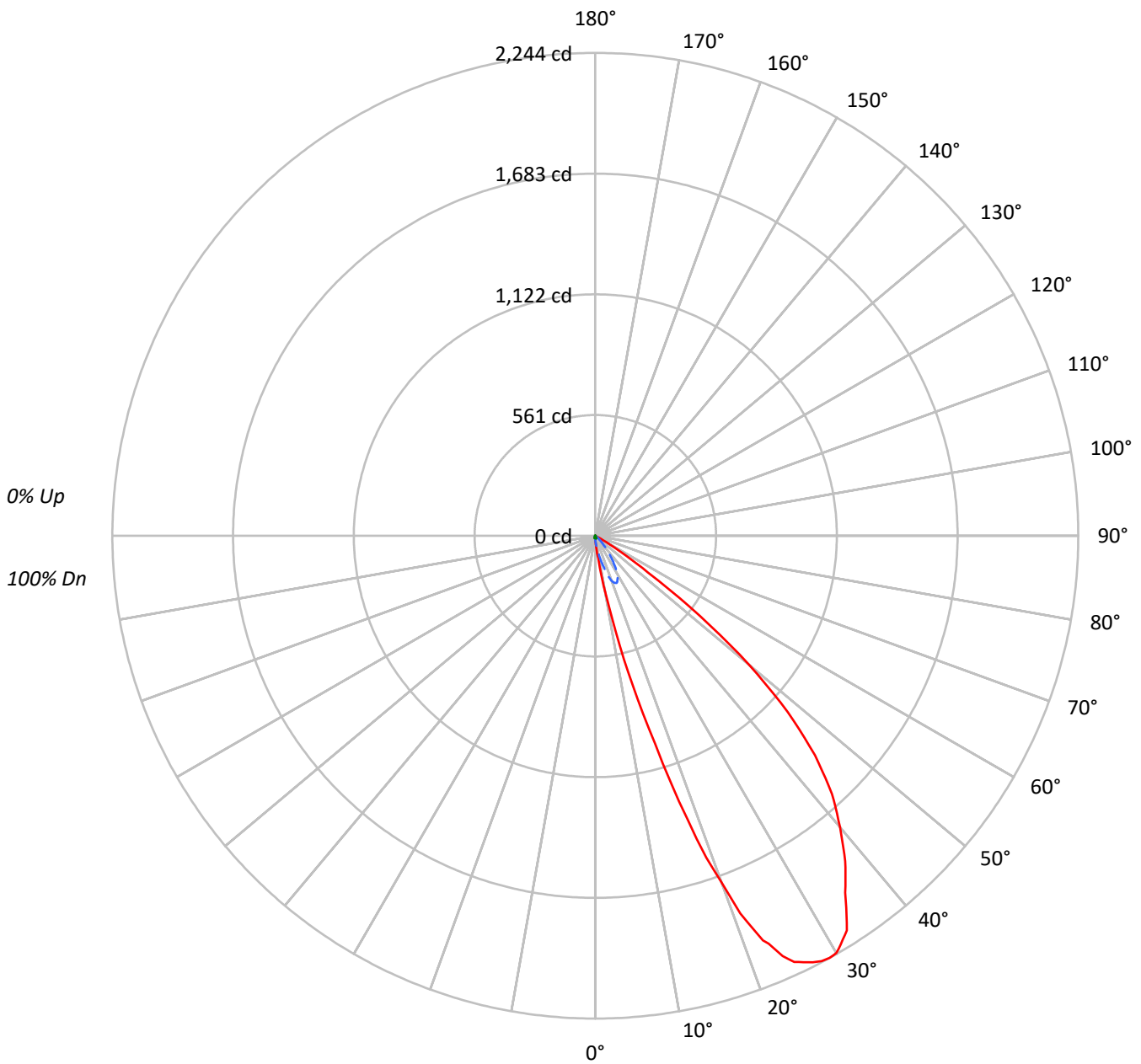
Lumens per Lamp: N/A
Luminaire Lumens: 605.5 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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



— 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	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	75	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°	10114	10114	10114
5°	31646	8865	5497
10°	135112	7464	4058
15°	436603	5465	3269
20°	899787	3360	2258
25°	1189763	1633	1415
30°	1276152	741	741
35°	1219564	542	241
40°	1138659	258	0
45°	1006390	0	0
50°	714652	307	0
55°	256239	344	0
60°	39568	888	0
65°	1985	1051	0
70°	0	1298	0
75°	0	1716	762
80°	0	2557	0
85°	0	5095	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.6
10°-20°	49.0	8.1
20°-30°	164.0	27.1
30°-40°	206.6	34.1
40°-50°	146.1	24.1
50°-60°	33.7	5.6
60°-70°	1.1	0.2
70°-80°	0.7	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°	216.6	35.8
0°-40°	423.2	69.9
0°-60°	603.1	99.6
0°-90°	605.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	605.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	64	42	18	13	11	12
15°	855	151	11	7	6	282
25°	2186	239	3	3	3	985
35°	2025	140	1	1	0	1268
45°	1442	34	0	0	0	1082
55°	298	2	0	0	0	337
65°	2	0	1	1	0	7
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°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
1°	25.6	24.7	23.4	21.3	19.2	18.3	18.3	17.0	17.0
2°	30.7	29.4	26.8	22.6	19.2	17.0	16.2	15.3	14.9
3°	39.6	36.2	30.7	24.3	18.7	16.2	15.8	13.6	13.6
4°	49.4	46.0	35.4	25.6	18.3	15.3	13.6	12.8	12.4
5°	63.9	56.2	41.8	26.8	17.9	14.5	12.8	11.5	11.1
6°	82.7	72.0	47.7	28.1	17.5	13.6	11.9	10.7	10.2
7°	104.0	89.5	55.0	29.4	16.6	12.8	11.1	10.2	9.8
8°	149.1	115.1	63.5	30.3	16.2	11.9	10.7	9.4	8.9
9°	199.4	148.7	72.9	31.5	15.3	11.5	9.8	8.9	8.5
10°	269.7	194.7	83.5	32.4	14.9	10.7	8.9	8.5	8.1
11°	339.6	251.8	96.7	32.8	14.1	9.4	8.9	8.5	8.1
12°	454.7	306.4	108.2	32.8	13.2	8.9	8.1	7.7	7.2
13°	591.0	400.1	124.9	33.2	11.9	8.5	7.7	7.2	7.2
14°	711.2	484.1	135.9	33.2	11.5	7.7	7.2	7.2	6.8
15°	854.8	565.9	150.8	32.8	10.7	7.2	7.2	6.8	6.4
16°	1005.2	688.6	170.9	32.0	9.8	6.4	6.8	6.0	5.5
17°	1204.6	790.0	186.2	31.1	8.9	6.0	6.0	6.0	5.5
18°	1387.0	913.2	198.6	30.3	8.1	6.0	5.5	5.5	5.1
19°	1582.6	1012.0	210.9	29.0	7.2	5.1	5.1	5.1	4.7
20°	1713.8	1133.5	224.6	27.7	6.4	4.7	5.1	4.7	4.3
21°	1880.0	1242.1	229.7	26.4	5.5	4.3	4.3	4.3	3.8
22.5°	2035.6	1386.6	237.8	23.9	4.7	3.4	3.8	3.4	3.4
23°	2059.4	1417.3	237.8	23.0	4.3	3.4	3.8	3.4	3.4
24°	2138.7	1501.2	240.8	21.3	3.4	3.0	3.4	3.0	3.0
25°	2185.6	1567.7	238.6	19.6	3.0	3.0	3.0	3.0	2.6
26°	2204.7	1586.0	233.5	18.3	2.6	2.6	3.0	2.6	2.1
27°	2224.8	1627.8	227.1	16.6	2.1	2.6	2.6	2.6	2.1
28°	2238.8	1632.9	220.7	15.3	1.7	2.1	2.6	2.1	2.1
29°	2243.5	1639.7	213.1	13.6	1.3	1.7	2.1	1.7	1.7
30°	2240.1	1638.4	202.0	12.4	1.3	1.7	1.7	1.7	1.3
32.5°	2174.9	1601.8	171.3	8.9	0.9	1.3	1.3	1.3	0.9
35°	2024.9	1517.4	139.8	6.0	0.9	0.9	0.9	0.9	0.4
37.5°	1906.4	1391.3	107.0	3.4	0.4	0.9	0.9	0.4	0.0
40°	1768.0	1208.5	77.1	2.1	0.4	0.4	0.4	0.0	0.0
42.5°	1627.3	1022.3	52.4	0.9	0.0	0.4	0.4	0.0	0.0
45°	1442.4	782.8	34.5	0.4	0.0	0.4	0.0	0.0	0.0
47.5°	1213.2	568.4	23.4	0.0	0.0	0.4	0.0	0.0	0.0
50°	931.1	318.3	13.2	0.0	0.4	0.4	0.4	0.0	0.0
52.5°	613.6	158.9	5.1	0.0	0.4	0.4	0.4	0.0	0.0
55°	297.9	85.2	1.7	0.4	0.4	0.9	0.4	0.0	0.0
57.5°	140.6	33.2	0.4	0.4	0.9	0.9	0.4	0.0	0.0
60°	40.1	6.8	0.4	0.4	0.9	0.9	0.4	0.4	0.0
62.5°	5.5	0.9	0.4	0.9	0.9	0.9	0.9	0.4	0.0
65°	1.7	0.4	0.4	0.9	0.9	0.9	0.9	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	0.9	0.9	0.9	0.9	0.4	0.0
70°	0.0	0.4	0.4	0.9	0.9	0.9	0.9	0.4	0.0
72.5°	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.0
75°	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.4
77.5°	0.0	0.4	0.9	0.9	1.3	0.9	0.9	0.4	0.0
80°	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.0
82.5°	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.0
85°	0.0	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.0
87.5°	0.0	0.4	0.9	0.9	0.9	0.9	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)