

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: P497670

Luminaire Tested: **LDA2B158035R30D010 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: P497670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/8/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B158035R30D010 2LBDC1MMS-30DEG TILT
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

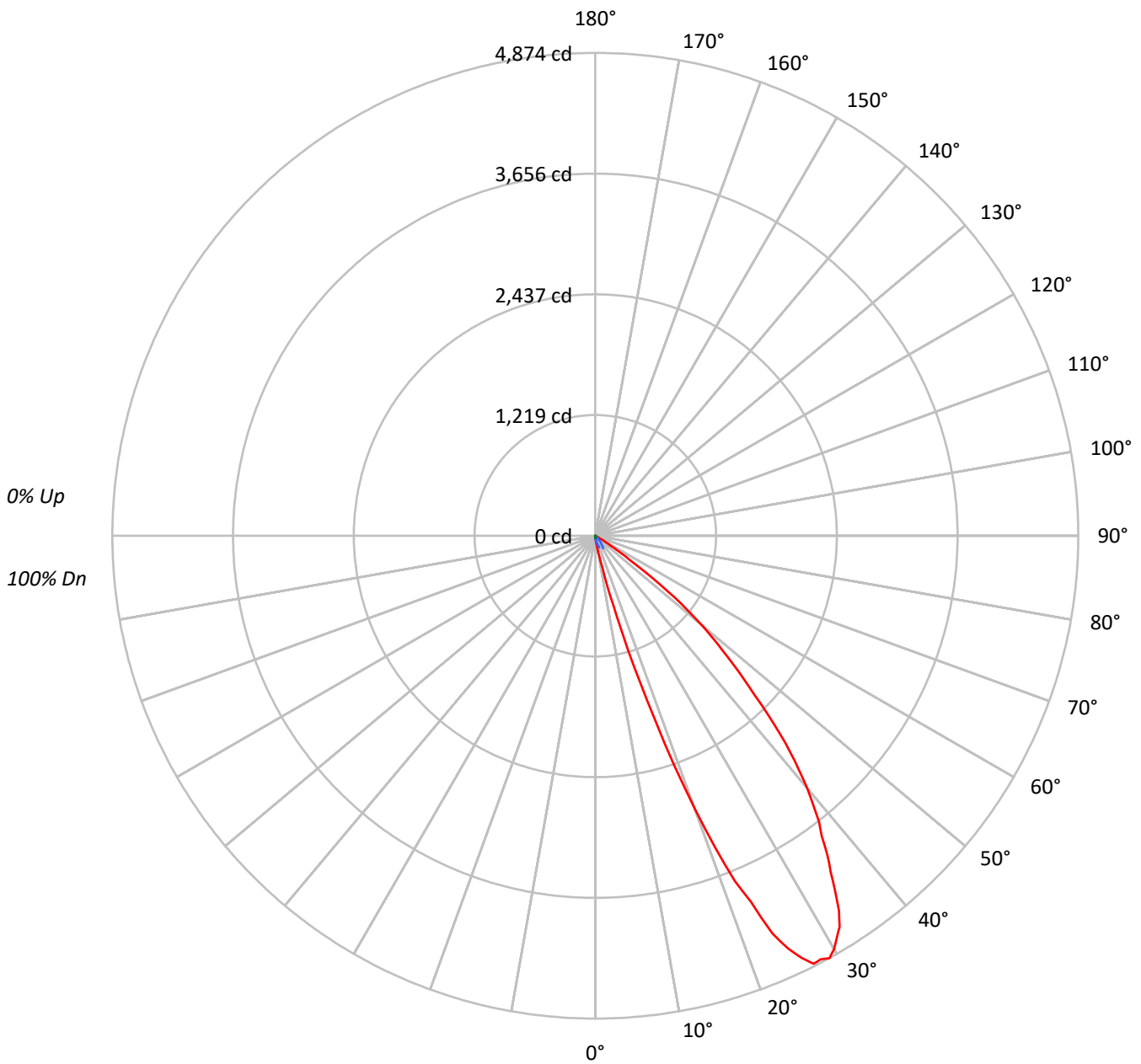
Lumens per Lamp: N/A
Luminaire Lumens: 980.3 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63					63			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49					49			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39					39			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10854	10854	10854
5°	23574	9855	7032
10°	70838	8567	4609
15°	429809	6180	3626
20°	1538900	3360	1470
25°	2500919	1143	0
30°	2744743	399	0
35°	2494297	0	0
40°	2140847	0	0
45°	1586822	0	0
50°	1073013	0	0
55°	362553	602	0
60°	51902	1381	0
65°	4203	1634	0
70°	0	2019	0
75°	0	4003	0
80°	0	3978	0
85°	0	7925	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.3
10°-20°	50.5	5.2
20°-30°	286.7	29.2
30°-40°	373.5	38.1
40°-50°	218.8	22.3
50°-60°	44.2	4.5
60°-70°	1.7	0.2
70°-80°	1.2	0.1
80°-90°	0.9	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°	340.1	34.7
0°-40°	713.6	72.8
0°-60°	976.6	99.6
0°-90°	980.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	980.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	48	34	20	16	14	7
15°	842	96	12	8	7	356
25°	4594	161	2	1	0	2032
35°	4141	118	0	0	0	2579
45°	2274	29	0	0	0	1777
55°	422	3	1	1	0	492
65°	4	1	1	1	0	10
75°	0	1	2	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°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
2.5°	29.9	27.7	26.3	22.7	20.6	19.2	18.5	17.8	17.1
5°	47.6	44.1	34.1	24.9	19.9	17.1	15.6	14.2	14.2
7.5°	81.7	66.1	44.8	26.3	18.5	14.9	13.5	11.4	10.7
10°	141.4	110.2	61.1	27.7	17.1	13.5	10.7	10.0	9.2
12.5°	331.9	201.1	77.5	27.7	14.9	11.4	9.2	8.5	7.8
15°	841.5	410.1	95.9	26.3	12.1	8.5	7.8	7.1	7.1
17.5°	1745.6	842.2	116.6	24.2	10.0	6.4	5.7	5.0	5.0
20°	2931.1	1509.6	136.5	20.6	6.4	4.3	3.6	2.8	2.8
21°	3367.4	1752.0	146.4	19.2	5.7	3.6	2.8	2.8	2.1
22°	3759.8	1974.4	152.1	18.5	4.3	2.8	2.8	2.1	2.1
23°	4012.8	2256.6	157.1	16.3	3.6	2.1	2.1	1.4	0.7
24°	4394.4	2477.6	159.2	14.9	2.8	2.1	1.4	0.7	0.7
25°	4594.2	2678.0	161.3	13.5	2.1	2.1	1.4	0.7	0.0
26°	4737.7	2836.5	169.2	12.8	2.1	1.4	1.4	0.7	0.0
27°	4850.0	2937.5	173.4	11.4	1.4	1.4	1.4	0.0	0.0
28°	4843.6	3010.7	169.9	10.0	1.4	1.4	0.7	0.0	0.0
29°	4874.2	3060.4	167.7	8.5	0.7	0.7	0.7	0.0	0.0
30°	4818.0	3064.7	159.9	7.8	0.7	0.7	0.7	0.0	0.0
31°	4732.8	3012.8	157.1	7.1	0.0	0.7	0.7	0.0	0.0
32°	4652.4	2989.3	147.8	5.7	0.0	0.7	0.7	0.0	0.0
33°	4514.6	2884.1	138.6	5.0	0.0	0.7	0.0	0.0	0.0
34°	4329.8	2781.1	130.1	4.3	0.0	0.7	0.0	0.0	0.0
35°	4141.4	2695.8	118.0	4.3	0.0	0.7	0.0	0.0	0.0
36°	3985.1	2540.9	109.5	3.6	0.0	0.7	0.0	0.0	0.0
37°	3795.3	2408.0	98.1	2.8	0.0	0.0	0.0	0.0	0.0
38°	3665.9	2221.0	89.6	2.8	0.0	0.0	0.0	0.0	0.0
39°	3491.8	2063.3	78.9	2.1	0.0	0.0	0.0	0.0	0.0
40°	3324.1	1899.8	68.2	1.4	0.0	0.0	0.0	0.0	0.0
42.5°	2842.9	1465.5	46.9	0.7	0.0	0.0	0.0	0.0	0.0
45°	2274.3	1074.6	29.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1806.0	725.7	18.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	1398.0	373.8	10.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	929.6	158.5	6.4	0.0	0.0	0.7	0.0	0.0	0.0
55°	421.5	82.4	2.8	0.0	0.7	0.7	0.7	0.0	0.0
57.5°	169.9	35.5	1.4	0.7	0.7	0.7	0.7	0.0	0.0
60°	52.6	10.0	0.7	0.7	1.4	1.4	0.7	0.0	0.0
62.5°	10.7	2.1	0.7	1.4	1.4	1.4	0.7	0.0	0.0
65°	3.6	0.7	0.7	1.4	1.4	1.4	1.4	0.0	0.0
67.5°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	0.7	0.0
70°	0.0	0.7	1.4	1.4	1.4	2.1	1.4	0.7	0.0
72.5°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
75°	0.0	0.7	1.4	1.4	2.1	2.1	1.4	0.7	0.0
77.5°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
80°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	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	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
85°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.0	0.0
87.5°	0.0	0.7	1.4	1.4	1.4	1.4	0.7	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)