

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: P500304

Luminaire Tested: **LDA2B208030R35D010 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: P500304
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: LDA2B208030R35D010 2LBDC1MMS-30DEG TILT
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

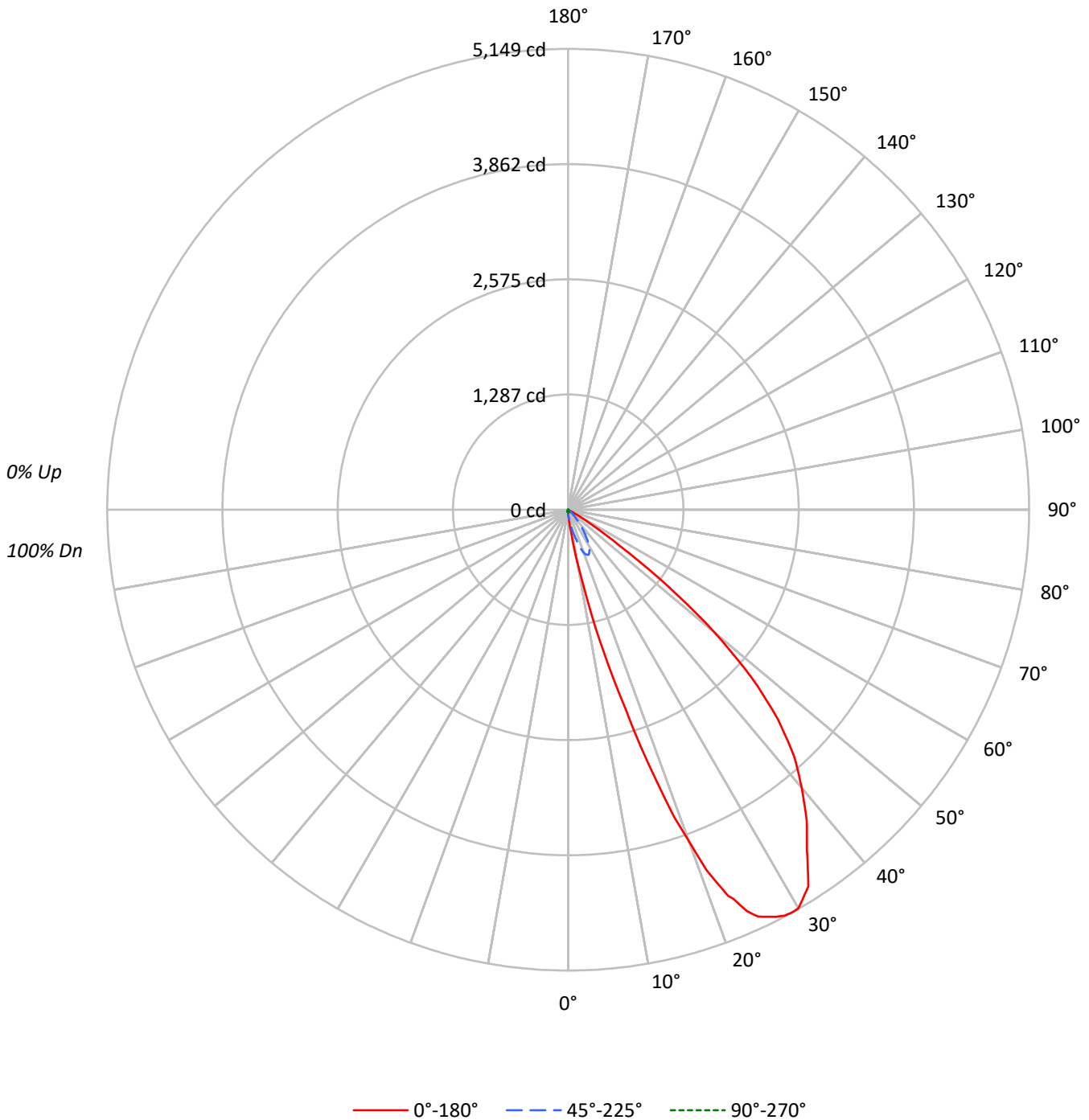
Lumens per Lamp: N/A
Luminaire Lumens: 1389.6 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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°	23139	23139	23139
5°	72653	20355	12579
10°	310102	17133	9318
15°	1001969	12463	7508
20°	2065027	7718	5145
25°	2730423	3702	3212
30°	2928751	1652	1652
35°	2798872	1205	602
40°	2613120	644	0
45°	2309659	0	0
50°	1640068	768	0
55°	587999	860	0
60°	90680	1973	0
65°	4553	2335	0
70°	0	2885	0
75°	0	3812	1906
80°	0	5682	0
85°	0	11321	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.6
10°-20°	112.4	8.1
20°-30°	376.4	27.1
30°-40°	474.1	34.1
40°-50°	335.4	24.1
50°-60°	77.4	5.6
60°-70°	2.5	0.2
70°-80°	1.6	0.1
80°-90°	1.4	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°	497.1	35.8
0°-40°	971.3	69.9
0°-60°	1384.0	99.6
0°-90°	1389.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1389.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	47	47	47	47	47	
5°	147	96	41	29	25	27
15°	1962	346	24	17	15	647
25°	5016	548	7	7	6	2261
35°	4647	321	2	2	1	2909
45°	3310	79	0	0	0	2483
55°	684	4	1	1	0	773
65°	4	1	2	2	0	15
75°	0	2	2	2	1	0
85°	0	2	2	2	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°	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
1°	58.7	56.7	53.8	48.9	44.0	42.1	42.1	39.1	39.1
2°	70.4	67.5	61.6	51.8	44.0	39.1	37.2	35.2	34.2
3°	90.9	83.1	70.4	55.7	43.0	37.2	36.2	31.3	31.3
4°	113.4	105.6	81.2	58.7	42.1	35.2	31.3	29.3	28.4
5°	146.7	129.1	95.8	61.6	41.1	33.2	29.3	26.4	25.4
6°	189.7	165.3	109.5	64.5	40.1	31.3	27.4	24.4	23.5
7°	238.6	205.4	126.2	67.5	38.1	29.3	25.4	23.5	22.5
8°	342.3	264.0	145.7	69.4	37.2	27.4	24.4	21.5	20.5
9°	457.7	341.3	167.2	72.4	35.2	26.4	22.5	20.5	19.6
10°	619.0	446.9	191.7	74.3	34.2	24.4	20.5	19.6	18.6
11°	779.4	578.0	222.0	75.3	32.3	21.5	20.5	19.6	18.6
12°	1043.4	703.1	248.4	75.3	30.3	20.5	18.6	17.6	16.6
13°	1356.4	918.3	286.5	76.3	27.4	19.6	17.6	16.6	16.6
14°	1632.2	1110.9	312.0	76.3	26.4	17.6	16.6	16.6	15.6
15°	1961.7	1298.7	346.2	75.3	24.4	16.6	16.6	15.6	14.7
16°	2306.9	1580.3	392.1	73.3	22.5	14.7	15.6	13.7	12.7
17°	2764.6	1813.1	427.4	71.4	20.5	13.7	13.7	13.7	12.7
18°	3183.1	2095.7	455.7	69.4	18.6	13.7	12.7	12.7	11.7
19°	3632.0	2322.6	484.1	66.5	16.6	11.7	11.7	11.7	10.8
20°	3933.2	2601.3	515.4	63.6	14.7	10.8	11.7	10.8	9.8
21°	4314.6	2850.7	527.1	60.6	12.7	9.8	9.8	9.8	8.8
22.5°	4671.6	3182.2	545.7	54.8	10.8	7.8	8.8	7.8	7.8
23°	4726.3	3252.6	545.7	52.8	9.8	7.8	8.8	7.8	7.8
24°	4908.2	3445.2	552.5	48.9	7.8	6.8	7.8	6.8	6.8
25°	5015.8	3597.8	547.6	45.0	6.8	6.8	6.8	6.8	5.9
26°	5059.8	3639.8	535.9	42.1	5.9	5.9	6.8	5.9	4.9
27°	5105.8	3735.7	521.2	38.1	4.9	5.9	5.9	5.9	4.9
28°	5138.0	3747.4	506.6	35.2	3.9	4.9	5.9	4.9	4.9
29°	5148.8	3763.1	489.0	31.3	2.9	3.9	4.9	3.9	3.9
30°	5141.0	3760.1	463.5	28.4	2.9	3.9	3.9	3.9	2.9
32.5°	4991.3	3676.0	393.1	20.5	2.0	2.9	2.9	2.9	2.0
35°	4647.1	3482.4	320.8	13.7	2.0	2.0	2.0	2.0	1.0
37.5°	4375.2	3192.9	245.5	7.8	1.0	2.0	2.0	1.0	0.0
40°	4057.4	2773.4	177.0	4.9	1.0	1.0	1.0	0.0	0.0
42.5°	3734.7	2346.0	120.3	2.0	0.0	1.0	1.0	0.0	0.0
45°	3310.3	1796.5	79.2	1.0	0.0	1.0	0.0	0.0	0.0
47.5°	2784.2	1304.6	53.8	0.0	0.0	1.0	0.0	0.0	0.0
50°	2136.8	730.5	30.3	0.0	1.0	1.0	1.0	0.0	0.0
52.5°	1408.2	364.8	11.7	0.0	1.0	1.0	1.0	0.0	0.0
55°	683.6	195.6	3.9	1.0	1.0	2.0	1.0	0.0	0.0
57.5°	322.7	76.3	1.0	1.0	2.0	2.0	1.0	0.0	0.0
60°	91.9	15.6	1.0	1.0	2.0	2.0	1.0	1.0	0.0
62.5°	12.7	2.0	1.0	2.0	2.0	2.0	2.0	1.0	0.0
65°	3.9	1.0	1.0	2.0	2.0	2.0	2.0	1.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	1.0	0.0
70°	0.0	1.0	1.0	2.0	2.0	2.0	2.0	1.0	0.0
72.5°	0.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	0.0
75°	0.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0
77.5°	0.0	1.0	2.0	2.0	2.9	2.0	2.0	1.0	0.0
80°	0.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	0.0
82.5°	0.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	0.0
85°	0.0	1.0	2.0	2.0	2.0	2.0	2.0	1.0	0.0
87.5°	0.0	1.0	2.0	2.0	2.0	2.0	1.0	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)