

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: P494184

Luminaire Tested: **LDA2B059730R20D010 2LBDL1MMS-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: P494184
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: LDA2B059730R20D010 2LBDL1MMS-30DEG TILT
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

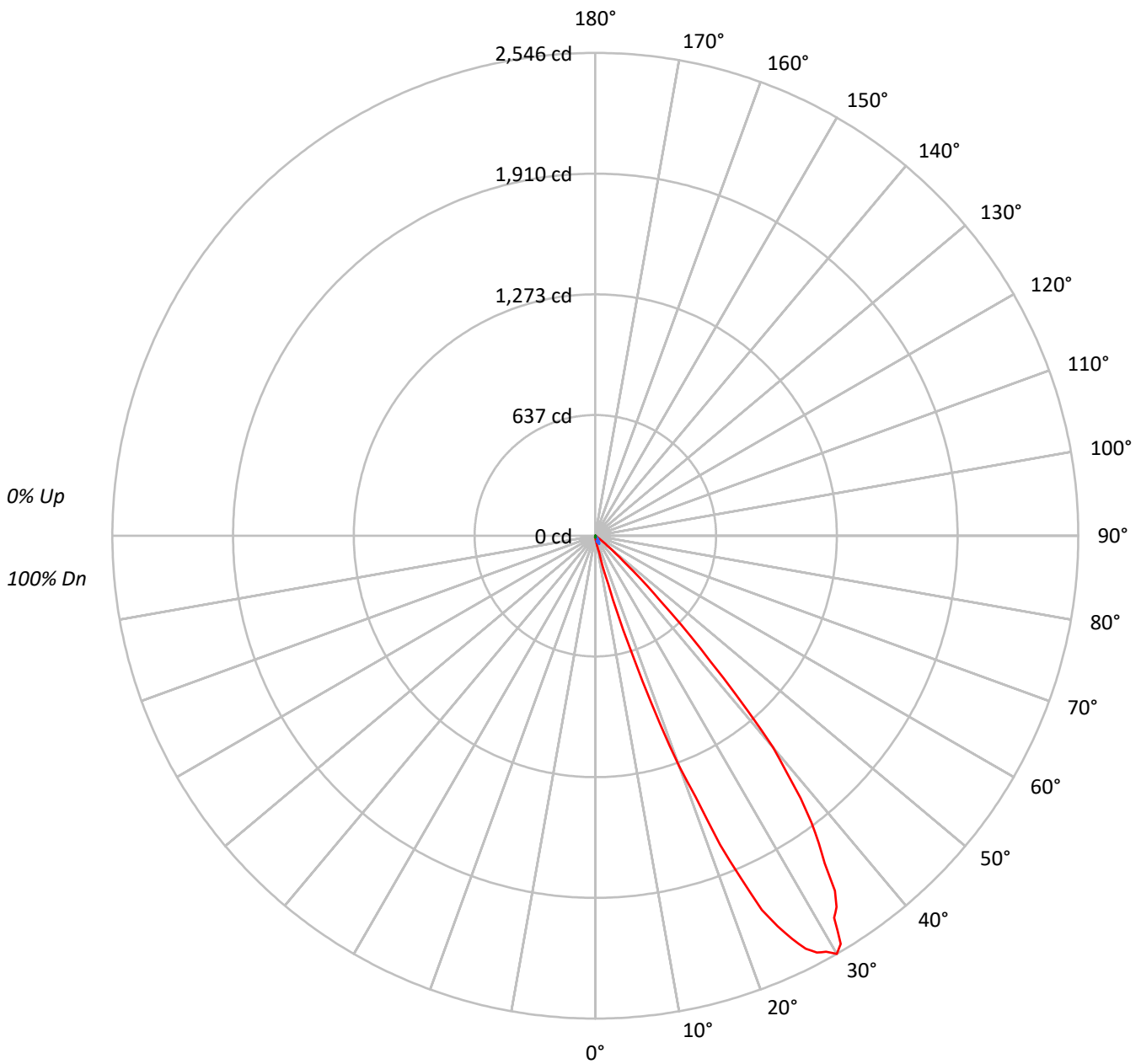
Lumens per Lamp: N/A
Luminaire Lumens: 321.4 lumens
Efficiency: N/A
Efficacy: 45.9 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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

TEST NUMBER: P494184

CATALOG NUMBER: LDA2B059730R20D010 2LBDL1MMS-30DEG TILT

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P494184

CATALOG NUMBER: LDA2B059730R20D010 2LBDL1MMS-30DEG TILT

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°	5131	5131	5131
5°	9756	4507	3318
10°	23345	3958	2204
15°	135966	3167	868
20°	678227	1943	263
25°	1236687	653	0
30°	1450532	0	0
35°	1269553	0	0
40°	937526	0	0
45°	337905	0	0
50°	70383	0	0
55°	16085	172	0
60°	5131	197	0
65°	1167	584	0
70°	0	721	288
75°	0	953	0
80°	0	1421	0
85°	0	2830	0



TEST NUMBER: P494184

CATALOG NUMBER: LDA2B059730R20D010 2LBDL1MMS-30DEG TILT

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.4
10°-20°	17.7	5.5
20°-30°	119.0	37.0
30°-40°	139.1	43.3
40°-50°	40.6	12.6
50°-60°	2.7	0.8
60°-70°	0.5	0.2
70°-80°	0.4	0.1
80°-90°	0.3	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°	137.9	42.9
0°-40°	277.0	86.2
0°-60°	320.2	99.6
0°-90°	321.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	321.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	20	14	9	8	7	3
15°	266	30	6	3	2	139
25°	2272	47	1	0	0	1006
35°	2108	25	0	0	0	1295
45°	484	5	0	0	0	446
55°	19	1	0	0	0	24
65°	1	0	0	0	0	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P494184

CATALOG NUMBER: LDA2B059730R20D010 2LBDL1MMS-30DEG TILT

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
2.5°	13.3	13.3	11.8	10.6	9.6	9.1	8.9	8.4	8.1
5°	19.7	17.3	14.3	11.1	9.1	8.4	7.6	6.9	6.7
7.5°	28.8	25.1	17.3	11.3	8.6	7.4	6.7	5.9	5.4
10°	46.6	36.2	21.2	11.3	7.9	6.4	5.4	4.7	4.4
12.5°	86.0	55.5	25.4	11.1	7.1	5.4	4.2	3.7	3.0
15°	266.2	114.9	30.1	10.6	6.2	4.2	3.2	2.0	1.7
17.5°	688.4	268.2	33.5	9.4	4.9	3.0	1.5	1.2	1.2
20°	1291.8	486.3	38.5	8.1	3.7	2.0	1.0	0.7	0.5
21°	1473.7	595.0	40.9	7.6	3.2	1.2	0.7	0.2	0.2
22°	1756.4	713.6	42.9	7.1	2.7	0.7	0.5	0.2	0.0
23°	1957.8	789.2	44.9	6.4	2.0	0.7	0.2	0.0	0.0
24°	2159.2	885.6	46.1	5.9	1.7	0.5	0.2	0.0	0.0
25°	2271.8	966.0	46.6	5.4	1.2	0.2	0.0	0.0	0.0
26°	2364.5	1019.7	46.8	4.9	0.7	0.0	0.0	0.0	0.0
27°	2443.9	1082.1	46.3	4.4	0.7	0.0	0.0	0.0	0.0
28°	2489.0	1092.4	45.6	3.9	0.2	0.0	0.0	0.0	0.0
29°	2508.4	1079.8	43.4	3.5	0.2	0.0	0.0	0.0	0.0
30°	2546.2	1068.0	41.2	3.2	0.0	0.0	0.0	0.0	0.0
31°	2511.4	1028.8	38.5	2.7	0.0	0.0	0.0	0.0	0.0
32°	2375.3	995.8	35.2	2.2	0.0	0.0	0.0	0.0	0.0
33°	2334.7	928.0	31.8	2.0	0.0	0.0	0.0	0.0	0.0
34°	2258.0	827.2	28.8	1.7	0.0	0.0	0.0	0.0	0.0
35°	2107.9	743.9	25.1	1.5	0.0	0.0	0.0	0.0	0.0
36°	2003.2	648.7	21.9	1.2	0.0	0.0	0.0	0.0	0.0
37°	1893.5	565.7	19.5	1.0	0.0	0.0	0.0	0.0	0.0
38°	1757.2	478.4	16.5	0.7	0.0	0.0	0.0	0.0	0.0
39°	1598.4	395.4	14.0	0.7	0.0	0.0	0.0	0.0	0.0
40°	1455.7	318.7	12.1	0.5	0.0	0.0	0.0	0.0	0.0
42.5°	898.4	181.9	7.1	0.5	0.0	0.0	0.0	0.0	0.0
45°	484.3	110.4	5.2	0.2	0.0	0.0	0.0	0.0	0.0
47.5°	223.1	51.5	3.7	0.2	0.0	0.0	0.0	0.0	0.0
50°	91.7	22.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	33.0	12.8	1.7	0.0	0.0	0.2	0.0	0.0	0.0
55°	18.7	7.4	1.0	0.2	0.2	0.2	0.2	0.0	0.0
57.5°	8.9	4.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
60°	5.2	2.2	0.2	0.2	0.2	0.5	0.2	0.0	0.0
62.5°	2.5	0.7	0.2	0.5	0.5	0.5	0.5	0.2	0.0
65°	1.0	0.2	0.5	0.5	0.5	0.7	0.5	0.2	0.0
67.5°	0.2	0.2	0.5	0.5	0.5	0.7	0.5	0.2	0.2
70°	0.0	0.2	0.5	0.5	0.5	0.7	0.5	0.2	0.2
72.5°	0.0	0.2	0.5	0.5	0.5	0.7	0.5	0.2	0.2
75°	0.0	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0
77.5°	0.0	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0
80°	0.0	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0



TEST NUMBER: P494184

CATALOG NUMBER: LDA2B059730R20D010 2LBDL1MMS-30DEG TILT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0
85°	0.0	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.0
87.5°	0.0	0.2	0.5	0.5	0.5	0.5	0.2	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)