

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: P499343

Luminaire Tested: **LDA2B159050R20D010 2LBD1LI-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: P499343
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: LDA2B159050R20D010 2LBD1LI-30DEG TILT
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

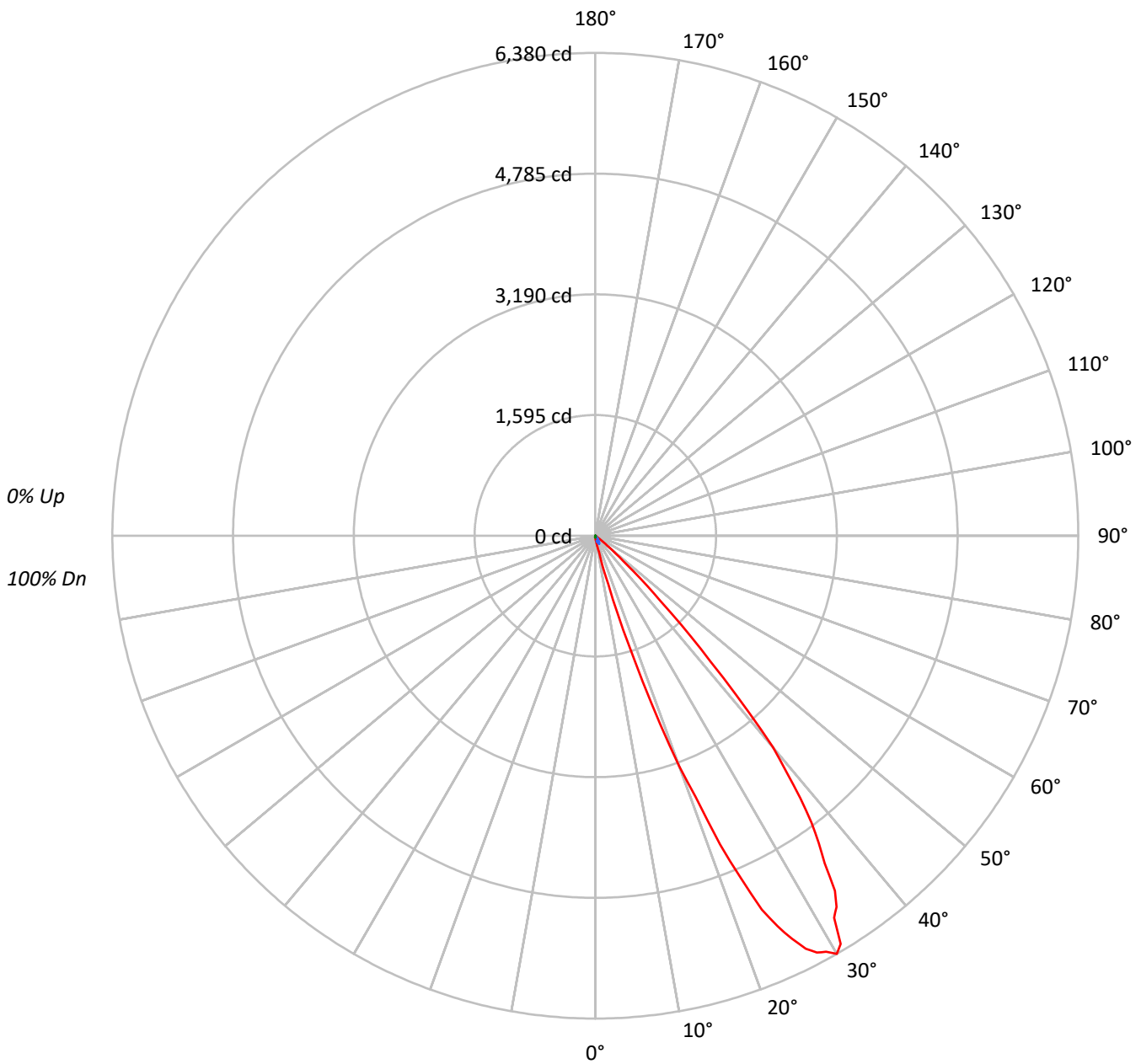
Lumens per Lamp: N/A
Luminaire Lumens: 805.5 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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: P499343

CATALOG NUMBER: LDA2B159050R20D010 2LBD1LI-30DEG TILT

Luminous Intensity Polar Plot



0% Up
100% Dn

— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P499343

CATALOG NUMBER: LDA2B159050R20D010 2LBD1LI-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°	12778	12778	12778
5°	24465	11341	8271
10°	58464	9919	5561
15°	340681	7866	2196
20°	1699400	4883	630
25°	3098686	1688	0
30°	3634420	0	0
35°	3181021	0	0
40°	2349129	0	0
45°	846752	0	0
50°	176303	0	0
55°	40341	516	0
60°	12827	592	0
65°	2918	1401	0
70°	0	1731	865
75°	0	2287	0
80°	0	3409	0
85°	0	6793	0



TEST NUMBER: P499343

CATALOG NUMBER: LDA2B159050R20D010 2LBD1LI-30DEG TILT

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.4
10°-20°	44.3	5.5
20°-30°	298.3	37.0
30°-40°	348.5	43.3
40°-50°	101.6	12.6
50°-60°	6.8	0.8
60°-70°	1.3	0.2
70°-80°	1.0	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°	345.5	42.9
0°-40°	694.0	86.2
0°-60°	802.4	99.6
0°-90°	805.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	49	36	23	19	17	7
15°	667	75	15	8	4	348
25°	5692	117	3	0	0	2520
35°	5282	63	0	0	0	3245
45°	1214	13	0	0	0	1118
55°	47	2	1	1	0	60
65°	2	1	1	1	0	4
75°	0	1	1	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P499343

CATALOG NUMBER: LDA2B159050R20D010 2LBD1LI-30DEG TILT

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
2.5°	33.3	33.3	29.6	26.6	24.1	22.9	22.2	21.0	20.4
5°	49.4	43.2	35.8	27.8	22.9	21.0	19.1	17.3	16.7
7.5°	72.3	63.0	43.2	28.4	21.6	18.5	16.7	14.8	13.6
10°	116.7	90.8	53.1	28.4	19.8	16.1	13.6	11.7	11.1
12.5°	215.5	139.0	63.6	27.8	17.9	13.6	10.5	9.3	7.4
15°	667.0	287.8	75.3	26.6	15.4	10.5	8.0	4.9	4.3
17.5°	1724.9	671.9	84.0	23.5	12.4	7.4	3.7	3.1	3.1
20°	3236.8	1218.5	96.3	20.4	9.3	4.9	2.5	1.9	1.2
21°	3692.6	1490.9	102.5	19.1	8.0	3.1	1.9	0.6	0.6
22°	4400.9	1787.9	107.5	17.9	6.8	1.9	1.2	0.6	0.0
23°	4905.5	1977.5	112.4	16.1	4.9	1.9	0.6	0.0	0.0
24°	5410.1	2219.0	115.5	14.8	4.3	1.2	0.6	0.0	0.0
25°	5692.3	2420.3	116.7	13.6	3.1	0.6	0.0	0.0	0.0
26°	5924.5	2555.0	117.3	12.4	1.9	0.0	0.0	0.0	0.0
27°	6123.4	2711.2	116.1	11.1	1.9	0.0	0.0	0.0	0.0
28°	6236.4	2737.2	114.3	9.9	0.6	0.0	0.0	0.0	0.0
29°	6285.2	2705.7	108.7	8.6	0.6	0.0	0.0	0.0	0.0
30°	6379.7	2676.0	103.1	8.0	0.0	0.0	0.0	0.0	0.0
31°	6292.6	2577.8	96.3	6.8	0.0	0.0	0.0	0.0	0.0
32°	5951.7	2495.1	88.3	5.6	0.0	0.0	0.0	0.0	0.0
33°	5849.8	2325.2	79.7	4.9	0.0	0.0	0.0	0.0	0.0
34°	5657.7	2072.6	72.3	4.3	0.0	0.0	0.0	0.0	0.0
35°	5281.6	1863.9	63.0	3.7	0.0	0.0	0.0	0.0	0.0
36°	5019.2	1625.5	55.0	3.1	0.0	0.0	0.0	0.0	0.0
37°	4744.3	1417.4	48.8	2.5	0.0	0.0	0.0	0.0	0.0
38°	4402.8	1198.7	41.4	1.9	0.0	0.0	0.0	0.0	0.0
39°	4005.1	990.6	35.2	1.9	0.0	0.0	0.0	0.0	0.0
40°	3647.5	798.5	30.3	1.2	0.0	0.0	0.0	0.0	0.0
42.5°	2251.1	455.8	17.9	1.2	0.0	0.0	0.0	0.0	0.0
45°	1213.6	276.7	13.0	0.6	0.0	0.0	0.0	0.0	0.0
47.5°	558.9	129.1	9.3	0.6	0.0	0.0	0.0	0.0	0.0
50°	229.7	57.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	82.8	32.1	4.3	0.0	0.0	0.6	0.0	0.0	0.0
55°	46.9	18.5	2.5	0.6	0.6	0.6	0.6	0.0	0.0
57.5°	22.2	10.5	0.6	0.6	0.6	0.6	0.6	0.0	0.0
60°	13.0	5.6	0.6	0.6	0.6	1.2	0.6	0.0	0.0
62.5°	6.2	1.9	0.6	1.2	1.2	1.2	1.2	0.6	0.0
65°	2.5	0.6	1.2	1.2	1.2	1.9	1.2	0.6	0.0
67.5°	0.6	0.6	1.2	1.2	1.2	1.9	1.2	0.6	0.6
70°	0.0	0.6	1.2	1.2	1.2	1.9	1.2	0.6	0.6
72.5°	0.0	0.6	1.2	1.2	1.2	1.9	1.2	0.6	0.6
75°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0
77.5°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0
80°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0



TEST NUMBER: P499343

CATALOG NUMBER: LDA2B159050R20D010 2LBD1LI-30DEG TILT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0
85°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0
87.5°	0.0	0.6	1.2	1.2	1.2	1.2	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)