

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: P494844

Luminaire Tested: **LDA2B108035R30D010 2LBD1B-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: P494844
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: LDA2B108035R30D010 2LBD1B-30DEG TILT
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

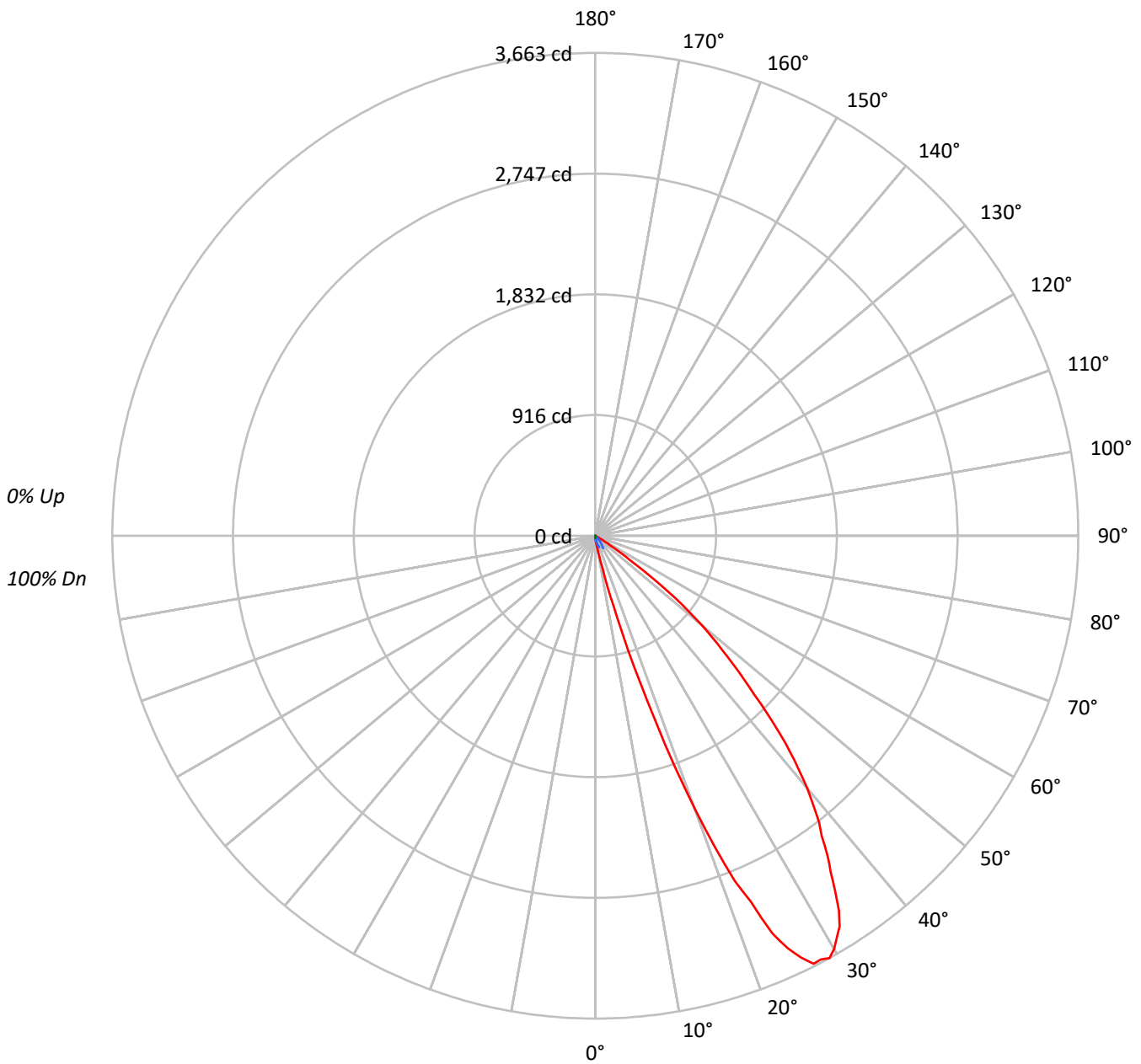
Lumens per Lamp: N/A
Luminaire Lumens: 736.8 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 3.2 / 0.53 / 1.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	57					56				
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51					49				
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45					44				
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40					39				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36					34				
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32					31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	8190	8190	8190
5°	17730	7429	5299
10°	53253	6412	3457
15°	323008	4648	2707
20°	1156524	2520	1103
25°	1879527	871	0
30°	2062830	285	0
35°	1874607	0	0
40°	1608936	0	0
45°	1192611	0	0
50°	806449	0	0
55°	272410	430	0
60°	38976	1085	0
65°	3152	1284	0
70°	0	1587	0
75°	0	3050	0
80°	0	3125	0
85°	0	6227	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.3
10°-20°	38.0	5.2
20°-30°	215.4	29.2
30°-40°	280.7	38.1
40°-50°	164.4	22.3
50°-60°	33.2	4.5
60°-70°	1.3	0.2
70°-80°	0.9	0.1
80°-90°	0.7	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°	255.6	34.7
0°-40°	536.3	72.8
0°-60°	733.9	99.6
0°-90°	736.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	736.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	36	26	15	12	11	6
15°	632	72	9	6	5	268
25°	3453	121	2	1	0	1527
35°	3112	89	0	0	0	1938
45°	1709	22	0	0	0	1335
55°	317	2	0	0	0	369
65°	3	0	1	1	0	7
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°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
2.5°	22.4	20.8	19.8	17.1	15.5	14.4	13.9	13.4	12.8
5°	35.8	33.1	25.6	18.7	15.0	12.8	11.8	10.7	10.7
7.5°	61.4	49.7	33.7	19.8	13.9	11.2	10.1	8.5	8.0
10°	106.3	82.8	45.9	20.8	12.8	10.1	8.0	7.5	6.9
12.5°	249.4	151.2	58.2	20.8	11.2	8.5	6.9	6.4	5.9
15°	632.4	308.2	72.1	19.8	9.1	6.4	5.9	5.3	5.3
17.5°	1311.9	633.0	87.6	18.2	7.5	4.8	4.3	3.7	3.7
20°	2202.8	1134.5	102.6	15.5	4.8	3.2	2.7	2.1	2.1
21°	2530.8	1316.7	110.0	14.4	4.3	2.7	2.1	2.1	1.6
22°	2825.6	1483.9	114.3	13.9	3.2	2.1	2.1	1.6	1.6
23°	3015.8	1695.9	118.0	12.3	2.7	1.6	1.6	1.1	0.5
24°	3302.6	1862.0	119.6	11.2	2.1	1.6	1.1	0.5	0.5
25°	3452.7	2012.7	121.3	10.1	1.6	1.6	1.1	0.5	0.0
26°	3560.6	2131.8	127.1	9.6	1.6	1.1	1.1	0.5	0.0
27°	3645.0	2207.6	130.3	8.5	1.1	1.1	1.1	0.0	0.0
28°	3640.2	2262.6	127.7	7.5	1.1	1.1	0.5	0.0	0.0
29°	3663.2	2300.0	126.1	6.4	0.5	0.5	0.5	0.0	0.0
30°	3621.0	2303.2	120.2	5.9	0.5	0.5	0.5	0.0	0.0
31°	3556.9	2264.2	118.0	5.3	0.0	0.5	0.5	0.0	0.0
32°	3496.5	2246.6	111.1	4.3	0.0	0.5	0.5	0.0	0.0
33°	3392.9	2167.6	104.2	3.7	0.0	0.5	0.0	0.0	0.0
34°	3254.0	2090.1	97.7	3.2	0.0	0.5	0.0	0.0	0.0
35°	3112.5	2026.0	88.7	3.2	0.0	0.5	0.0	0.0	0.0
36°	2995.0	1909.6	82.3	2.7	0.0	0.5	0.0	0.0	0.0
37°	2852.3	1809.7	73.7	2.1	0.0	0.0	0.0	0.0	0.0
38°	2755.1	1669.2	67.3	2.1	0.0	0.0	0.0	0.0	0.0
39°	2624.3	1550.6	59.3	1.6	0.0	0.0	0.0	0.0	0.0
40°	2498.2	1427.8	51.3	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	2136.6	1101.4	35.3	0.5	0.0	0.0	0.0	0.0	0.0
45°	1709.3	807.6	21.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1357.3	545.4	13.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	1050.7	281.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	698.7	119.1	4.8	0.0	0.0	0.5	0.0	0.0	0.0
55°	316.7	62.0	2.1	0.0	0.5	0.5	0.5	0.0	0.0
57.5°	127.7	26.7	1.1	0.5	0.5	0.5	0.5	0.0	0.0
60°	39.5	7.5	0.5	0.5	1.1	1.1	0.5	0.0	0.0
62.5°	8.0	1.6	0.5	1.1	1.1	1.1	0.5	0.0	0.0
65°	2.7	0.5	0.5	1.1	1.1	1.1	1.1	0.0	0.0
67.5°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	0.5	0.0
70°	0.0	0.5	1.1	1.1	1.1	1.6	1.1	0.5	0.0
72.5°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.0
75°	0.0	0.5	1.1	1.1	1.6	1.6	1.1	0.5	0.0
77.5°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.0
80°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.5	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	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.0
85°	0.0	0.5	1.1	1.1	1.1	1.1	1.1	0.0	0.0
87.5°	0.0	0.5	1.1	1.1	1.1	1.1	0.5	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)