

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: P494451

Luminaire Tested: **LDA2B108027R35D010 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: P494451  
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: LDA2B108027R35D010 2LBD1B-30DEG TILT  
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

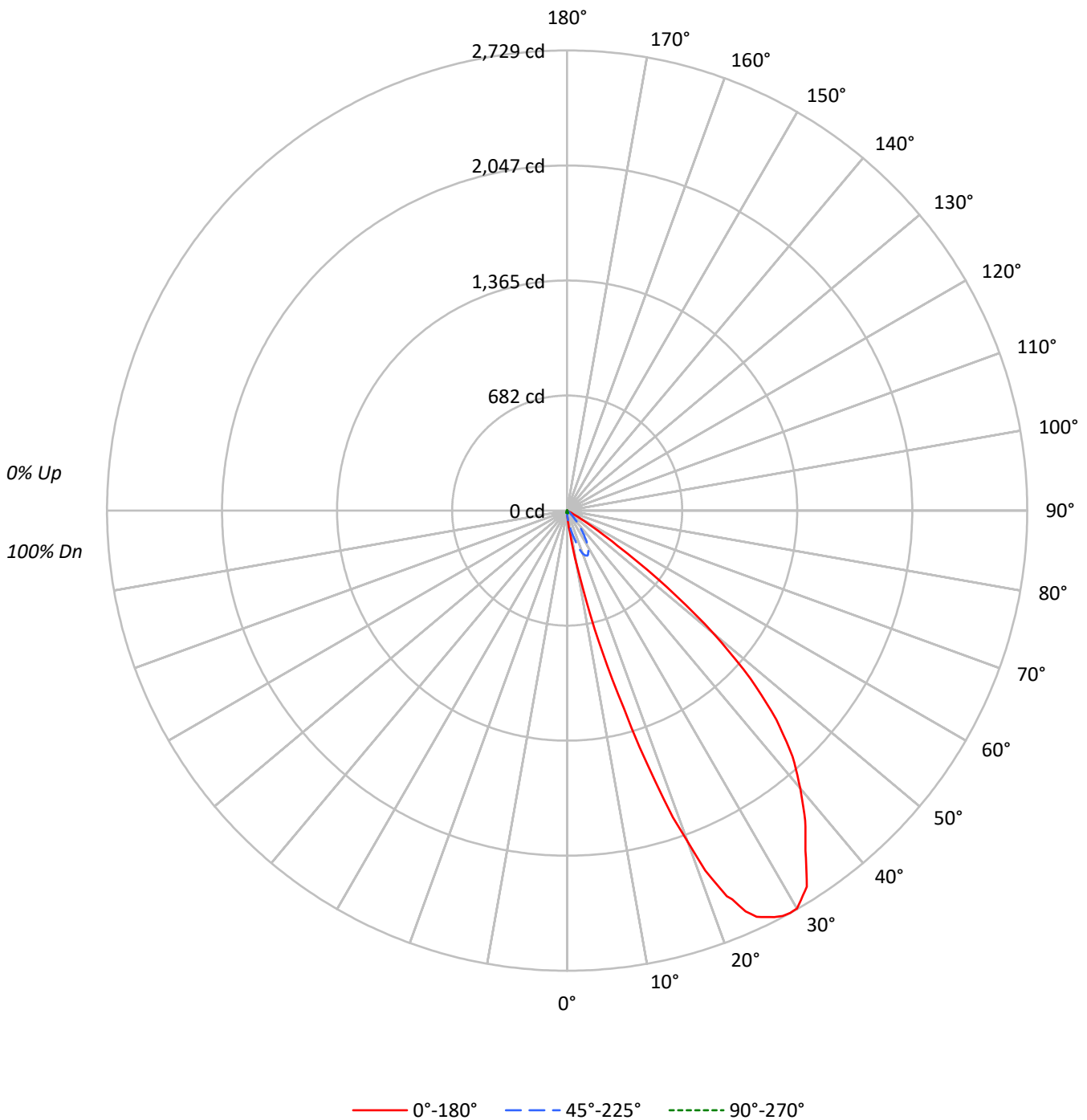
Lumens per Lamp: N/A  
Luminaire Lumens: 736.3 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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	84	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	47	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°	12285	12285	12285
5°	38481	10796	6686
10°	164369	9068	4910
15°	531043	6640	3984
20°	1094466	4095	2730
25°	1447084	1960	1688
30°	1552164	911	911
35°	1483364	602	301
40°	1384939	322	0
45°	1224078	0	0
50°	869233	384	0
55°	311632	430	0
60°	48053	987	0
65°	2452	1167	0
70°	0	1442	0
75°	0	1906	953
80°	0	2841	0
85°	0	5661	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.4	0.6
10°-20°	59.6	8.1
20°-30°	199.5	27.1
30°-40°	251.3	34.1
40°-50°	177.8	24.1
50°-60°	41.0	5.6
60°-70°	1.3	0.2
70°-80°	0.8	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°	263.5	35.8
0°-40°	514.8	69.9
0°-60°	733.5	99.6
0°-90°	736.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	736.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	78	51	22	16	14	14
15°	1040	184	13	9	8	343
25°	2658	290	4	4	3	1198
35°	2463	170	1	1	0	1542
45°	1754	42	0	0	0	1316
55°	362	2	0	0	0	410
65°	2	0	1	1	0	8
75°	0	1	1	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°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
1°	31.1	30.1	28.5	25.9	23.3	22.3	22.3	20.7	20.7
2°	37.3	35.8	32.7	27.5	23.3	20.7	19.7	18.7	18.1
3°	48.2	44.1	37.3	29.5	22.8	19.7	19.2	16.6	16.6
4°	60.1	56.0	43.0	31.1	22.3	18.7	16.6	15.5	15.0
5°	77.7	68.4	50.8	32.7	21.8	17.6	15.5	14.0	13.5
6°	100.5	87.6	58.0	34.2	21.2	16.6	14.5	13.0	12.4
7°	126.5	108.8	66.9	35.8	20.2	15.5	13.5	12.4	11.9
8°	181.4	139.9	77.2	36.8	19.7	14.5	13.0	11.4	10.9
9°	242.6	180.9	88.6	38.4	18.7	14.0	11.9	10.9	10.4
10°	328.1	236.9	101.6	39.4	18.1	13.0	10.9	10.4	9.8
11°	413.1	306.3	117.7	39.9	17.1	11.4	10.9	10.4	9.8
12°	553.0	372.7	131.6	39.9	16.1	10.9	9.8	9.3	8.8
13°	718.9	486.7	151.9	40.4	14.5	10.4	9.3	8.8	8.8
14°	865.0	588.8	165.3	40.4	14.0	9.3	8.8	8.8	8.3
15°	1039.7	688.3	183.5	39.9	13.0	8.8	8.8	8.3	7.8
16°	1222.6	837.6	207.8	38.9	11.9	7.8	8.3	7.3	6.7
17°	1465.2	960.9	226.5	37.8	10.9	7.3	7.3	7.3	6.7
18°	1687.0	1110.7	241.5	36.8	9.8	7.3	6.7	6.7	6.2
19°	1924.9	1230.9	256.6	35.2	8.8	6.2	6.2	6.2	5.7
20°	2084.6	1378.7	273.1	33.7	7.8	5.7	6.2	5.7	5.2
21°	2286.7	1510.8	279.4	32.1	6.7	5.2	5.2	5.2	4.7
22.5°	2475.9	1686.5	289.2	29.0	5.7	4.1	4.7	4.1	4.1
23°	2504.9	1723.8	289.2	28.0	5.2	4.1	4.7	4.1	4.1
24°	2601.3	1825.9	292.8	25.9	4.1	3.6	4.1	3.6	3.6
25°	2658.3	1906.8	290.2	23.8	3.6	3.6	3.6	3.6	3.1
26°	2681.6	1929.1	284.0	22.3	3.1	3.1	3.6	3.1	2.6
27°	2706.0	1979.9	276.2	20.2	2.6	3.1	3.1	3.1	2.6
28°	2723.1	1986.1	268.5	18.7	2.1	2.6	3.1	2.6	2.6
29°	2728.8	1994.4	259.1	16.6	1.6	2.1	2.6	2.1	2.1
30°	2724.6	1992.8	245.7	15.0	1.6	2.1	2.1	2.1	1.6
32.5°	2645.4	1948.3	208.4	10.9	1.0	1.6	1.6	1.6	1.0
35°	2462.9	1845.6	170.0	7.3	1.0	1.0	1.0	1.0	0.5
37.5°	2318.8	1692.2	130.1	4.1	0.5	1.0	1.0	0.5	0.0
40°	2150.4	1469.9	93.8	2.6	0.5	0.5	0.5	0.0	0.0
42.5°	1979.3	1243.4	63.7	1.0	0.0	0.5	0.5	0.0	0.0
45°	1754.4	952.1	42.0	0.5	0.0	0.5	0.0	0.0	0.0
47.5°	1475.6	691.4	28.5	0.0	0.0	0.5	0.0	0.0	0.0
50°	1132.5	387.2	16.1	0.0	0.5	0.5	0.5	0.0	0.0
52.5°	746.3	193.3	6.2	0.0	0.5	0.5	0.5	0.0	0.0
55°	362.3	103.7	2.1	0.5	0.5	1.0	0.5	0.0	0.0
57.5°	171.0	40.4	0.5	0.5	1.0	1.0	0.5	0.0	0.0
60°	48.7	8.3	0.5	0.5	1.0	1.0	0.5	0.5	0.0
62.5°	6.7	1.0	0.5	1.0	1.0	1.0	1.0	0.5	0.0
65°	2.1	0.5	0.5	1.0	1.0	1.0	1.0	0.5	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	0.5	0.0
70°	0.0	0.5	0.5	1.0	1.0	1.0	1.0	0.5	0.0
72.5°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
75°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.5
77.5°	0.0	0.5	1.0	1.0	1.6	1.0	1.0	0.5	0.0
80°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
82.5°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
85°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
87.5°	0.0	0.5	1.0	1.0	1.0	1.0	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)