

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: P494899

Luminaire Tested: **LDA2B108035R35D010 2LBD1WHH-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: P494899  
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: LDA2B108035R35D010 2LBD1WHH-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**

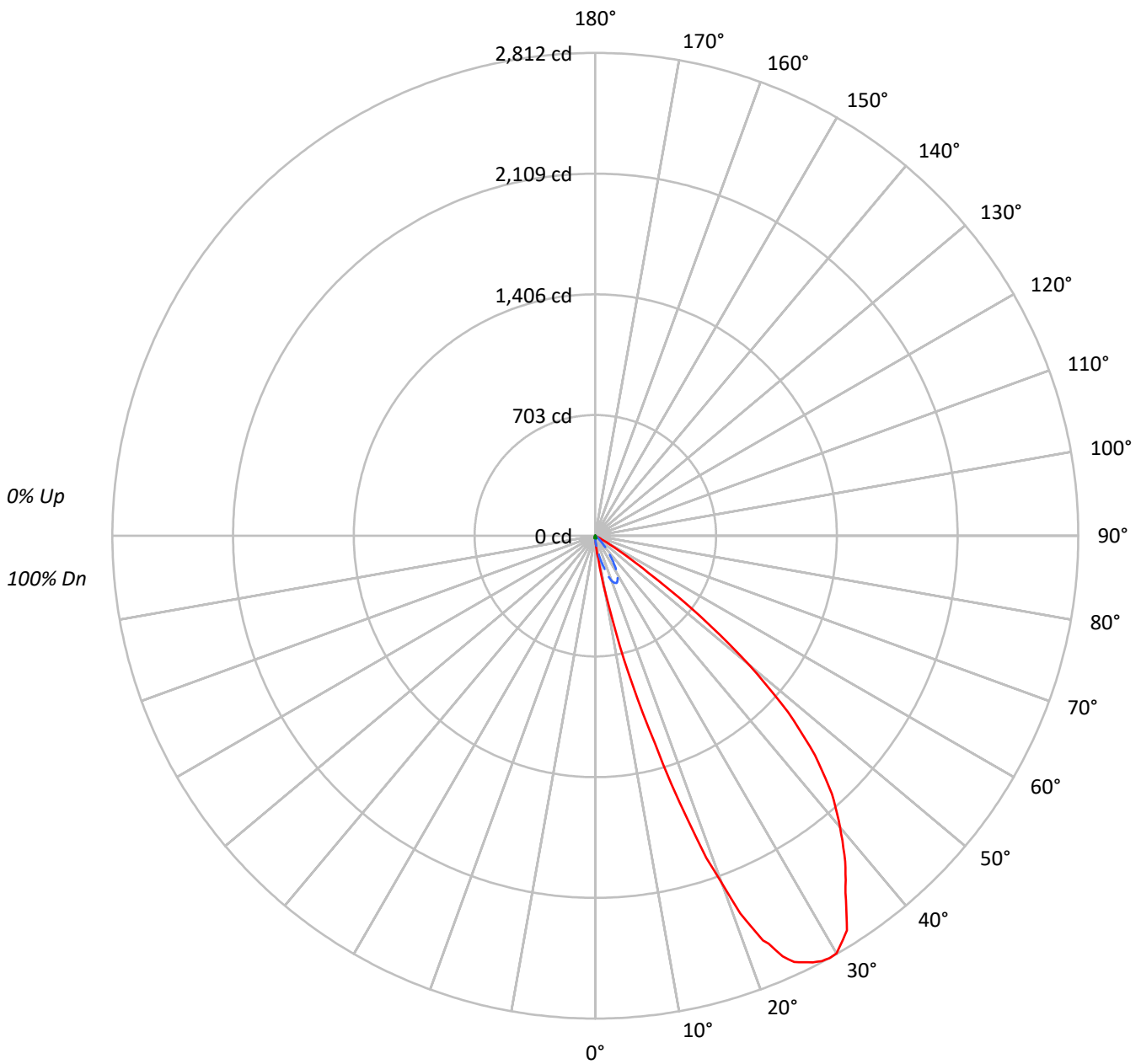
Lumens per Lamp: N/A  
Luminaire Lumens: 758.9 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): 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	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	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°	12630	12630	12630
5°	39669	11094	6884
10°	169379	9368	5060
15°	547285	6844	4086
20°	1127910	4200	2783
25°	1491341	2014	1742
30°	1599676	911	911
35°	1528776	663	301
40°	1427317	322	0
45°	1261546	0	0
50°	895790	384	0
55°	321180	430	0
60°	49534	1085	0
65°	2452	1284	0
70°	0	1587	0
75°	0	2097	953
80°	0	3125	0
85°	0	6227	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.5	0.6
10°-20°	61.4	8.1
20°-30°	205.6	27.1
30°-40°	259.0	34.1
40°-50°	183.2	24.1
50°-60°	42.2	5.6
60°-70°	1.4	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°	271.5	35.8
0°-40°	530.5	69.9
0°-60°	755.9	99.6
0°-90°	758.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	758.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	80	52	22	16	14	15
15°	1072	189	13	9	8	353
25°	2740	299	4	4	3	1235
35°	2538	175	1	1	0	1589
45°	1808	43	0	0	0	1356
55°	373	2	0	0	0	422
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°	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
1°	32.0	31.0	29.4	26.7	24.0	23.0	23.0	21.4	21.4
2°	38.5	36.9	33.7	28.3	24.0	21.4	20.3	19.2	18.7
3°	49.7	45.4	38.5	30.4	23.5	20.3	19.8	17.1	17.1
4°	62.0	57.7	44.3	32.0	23.0	19.2	17.1	16.0	15.5
5°	80.1	70.5	52.3	33.7	22.4	18.2	16.0	14.4	13.9
6°	103.6	90.3	59.8	35.3	21.9	17.1	15.0	13.4	12.8
7°	130.3	112.2	68.9	36.9	20.8	16.0	13.9	12.8	12.3
8°	187.0	144.2	79.6	37.9	20.3	15.0	13.4	11.8	11.2
9°	250.0	186.4	91.3	39.5	19.2	14.4	12.3	11.2	10.7
10°	338.1	244.1	104.7	40.6	18.7	13.4	11.2	10.7	10.1
11°	425.7	315.7	121.3	41.1	17.6	11.8	11.2	10.7	10.1
12°	569.9	384.0	135.7	41.1	16.6	11.2	10.1	9.6	9.1
13°	740.9	501.6	156.5	41.7	15.0	10.7	9.6	9.1	9.1
14°	891.5	606.8	170.4	41.7	14.4	9.6	9.1	9.1	8.5
15°	1071.5	709.3	189.1	41.1	13.4	9.1	9.1	8.5	8.0
16°	1260.0	863.2	214.2	40.1	12.3	8.0	8.5	7.5	6.9
17°	1510.0	990.3	233.4	39.0	11.2	7.5	7.5	7.5	6.9
18°	1738.6	1144.7	248.9	37.9	10.1	7.5	6.9	6.9	6.4
19°	1983.8	1268.6	264.4	36.3	9.1	6.4	6.4	6.4	5.9
20°	2148.3	1420.8	281.5	34.7	8.0	5.9	6.4	5.9	5.3
21°	2356.6	1557.0	287.9	33.1	6.9	5.3	5.3	5.3	4.8
22.5°	2551.6	1738.1	298.1	29.9	5.9	4.3	4.8	4.3	4.3
23°	2581.5	1776.6	298.1	28.8	5.3	4.3	4.8	4.3	4.3
24°	2680.9	1881.8	301.8	26.7	4.3	3.7	4.3	3.7	3.7
25°	2739.6	1965.1	299.1	24.6	3.7	3.7	3.7	3.7	3.2
26°	2763.7	1988.1	292.7	23.0	3.2	3.2	3.7	3.2	2.7
27°	2788.8	2040.4	284.7	20.8	2.7	3.2	3.2	3.2	2.7
28°	2806.4	2046.8	276.7	19.2	2.1	2.7	3.2	2.7	2.7
29°	2812.3	2055.4	267.1	17.1	1.6	2.1	2.7	2.1	2.1
30°	2808.0	2053.8	253.2	15.5	1.6	2.1	2.1	2.1	1.6
32.5°	2726.3	2007.8	214.7	11.2	1.1	1.6	1.6	1.6	1.1
35°	2538.3	1902.1	175.2	7.5	1.1	1.1	1.1	1.1	0.5
37.5°	2389.8	1744.0	134.1	4.3	0.5	1.1	1.1	0.5	0.0
40°	2216.2	1514.8	96.7	2.7	0.5	0.5	0.5	0.0	0.0
42.5°	2039.9	1281.4	65.7	1.1	0.0	0.5	0.5	0.0	0.0
45°	1808.1	981.2	43.3	0.5	0.0	0.5	0.0	0.0	0.0
47.5°	1520.7	712.5	29.4	0.0	0.0	0.5	0.0	0.0	0.0
50°	1167.1	399.0	16.6	0.0	0.5	0.5	0.5	0.0	0.0
52.5°	769.2	199.2	6.4	0.0	0.5	0.5	0.5	0.0	0.0
55°	373.4	106.8	2.1	0.5	0.5	1.1	0.5	0.0	0.0
57.5°	176.3	41.7	0.5	0.5	1.1	1.1	0.5	0.0	0.0
60°	50.2	8.5	0.5	0.5	1.1	1.1	0.5	0.5	0.0
62.5°	6.9	1.1	0.5	1.1	1.1	1.1	1.1	0.5	0.0
65°	2.1	0.5	0.5	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°
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	0.5	1.1	1.1	1.1	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	1.1	1.1	1.1	0.5	0.5
77.5°	0.0	0.5	1.1	1.1	1.6	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
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	0.5	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)