

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: P499003

Luminaire Tested: **LDA2B159035R35D010 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: P499003  
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: LDA2B159035R35D010 2LBD1WHH-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

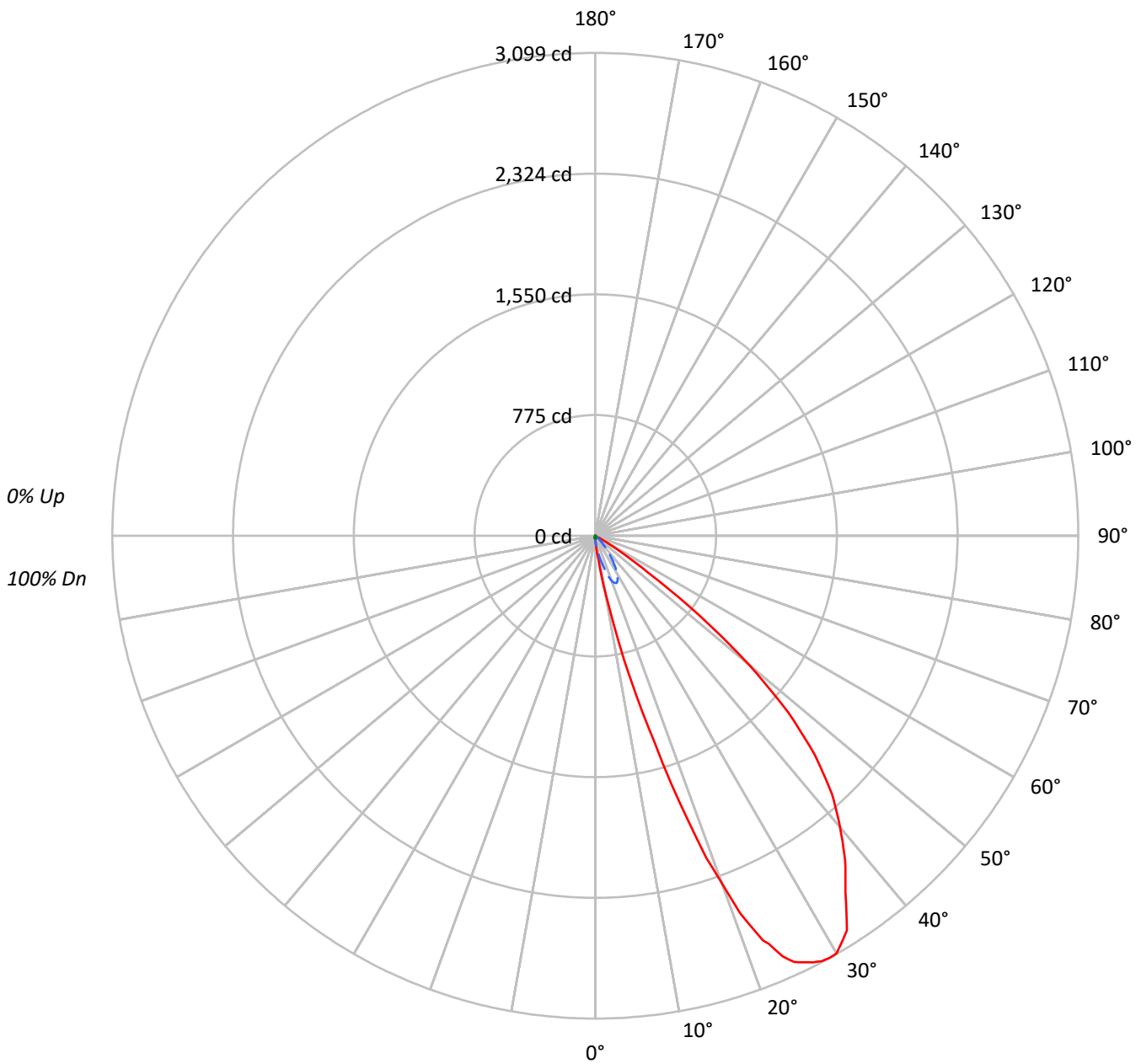
Lumens per Lamp: N/A  
Luminaire Lumens: 836.4 lumens  
Efficiency: N/A  
Efficacy: 59.3 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
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



— 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					90			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63					63			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49					49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44					44			
8	67	54	47	42	65	54	46	41	53	46	41	51	45	41	50	45	41	39					39			
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35					35			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	13962	13962	13962
5°	43730	12233	7577
10°	186662	10320	5611
15°	603112	7508	4495
20°	1242996	4620	3098
25°	1643491	2232	1905
30°	1762834	1025	1025
35°	1684708	723	361
40°	1572870	386	0
45°	1390205	0	0
50°	987203	461	0
55°	353952	516	0
60°	54566	1184	0
65°	2802	1401	0
70°	0	1731	0
75°	0	2287	1144
80°	0	3409	0
85°	0	6793	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.0	0.6
10°-20°	67.7	8.1
20°-30°	226.6	27.1
30°-40°	285.4	34.1
40°-50°	201.9	24.1
50°-60°	46.6	5.6
60°-70°	1.5	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°	299.2	35.8
0°-40°	584.6	69.9
0°-60°	833.1	99.6
0°-90°	836.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	88	58	25	18	15	16
15°	1181	208	15	10	9	389
25°	3019	330	4	4	4	1361
35°	2797	193	1	1	1	1751
45°	1992	48	0	0	0	1494
55°	412	2	1	1	0	466
65°	2	1	1	1	0	9
75°	0	1	1	1	1	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°	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3
1°	35.3	34.1	32.4	29.4	26.5	25.3	25.3	23.5	23.5
2°	42.4	40.6	37.1	31.2	26.5	23.5	22.4	21.2	20.6
3°	54.7	50.0	42.4	33.6	25.9	22.4	21.8	18.8	18.8
4°	68.3	63.6	48.9	35.3	25.3	21.2	18.8	17.7	17.1
5°	88.3	77.7	57.7	37.1	24.7	20.0	17.7	15.9	15.3
6°	114.2	99.5	65.9	38.8	24.1	18.8	16.5	14.7	14.1
7°	143.6	123.6	75.9	40.6	23.0	17.7	15.3	14.1	13.5
8°	206.0	158.9	87.7	41.8	22.4	16.5	14.7	12.9	12.4
9°	275.5	205.4	100.7	43.6	21.2	15.9	13.5	12.4	11.8
10°	372.6	269.0	115.4	44.7	20.6	14.7	12.4	11.8	11.2
11°	469.1	347.9	133.6	45.3	19.4	12.9	12.4	11.8	11.2
12°	628.1	423.2	149.5	45.3	18.2	12.4	11.2	10.6	10.0
13°	816.4	552.7	172.5	45.9	16.5	11.8	10.6	10.0	10.0
14°	982.4	668.7	187.8	45.9	15.9	10.6	10.0	10.0	9.4
15°	1180.8	781.7	208.4	45.3	14.7	10.0	10.0	9.4	8.8
16°	1388.6	951.2	236.0	44.1	13.5	8.8	9.4	8.2	7.7
17°	1664.1	1091.3	257.2	43.0	12.4	8.2	8.2	8.2	7.7
18°	1916.0	1261.4	274.3	41.8	11.2	8.2	7.7	7.7	7.1
19°	2186.2	1398.0	291.4	40.0	10.0	7.1	7.1	7.1	6.5
20°	2367.5	1565.8	310.2	38.3	8.8	6.5	7.1	6.5	5.9
21°	2597.0	1715.9	317.3	36.5	7.7	5.9	5.9	5.9	5.3
22.5°	2811.9	1915.4	328.5	33.0	6.5	4.7	5.3	4.7	4.7
23°	2844.8	1957.8	328.5	31.8	5.9	4.7	5.3	4.7	4.7
24°	2954.3	2073.7	332.6	29.4	4.7	4.1	4.7	4.1	4.1
25°	3019.1	2165.6	329.6	27.1	4.1	4.1	4.1	4.1	3.5
26°	3045.6	2190.9	322.6	25.3	3.5	3.5	4.1	3.5	2.9
27°	3073.2	2248.6	313.7	23.0	2.9	3.5	3.5	3.5	2.9
28°	3092.7	2255.6	304.9	21.2	2.4	2.9	3.5	2.9	2.9
29°	3099.1	2265.0	294.3	18.8	1.8	2.4	2.9	2.4	2.4
30°	3094.4	2263.3	279.0	17.1	1.8	2.4	2.4	2.4	1.8
32.5°	3004.4	2212.7	236.6	12.4	1.2	1.8	1.8	1.8	1.2
35°	2797.2	2096.1	193.1	8.2	1.2	1.2	1.2	1.2	0.6
37.5°	2633.5	1921.9	147.7	4.7	0.6	1.2	1.2	0.6	0.0
40°	2442.2	1669.3	106.5	2.9	0.6	0.6	0.6	0.0	0.0
42.5°	2248.0	1412.1	72.4	1.2	0.0	0.6	0.6	0.0	0.0
45°	1992.5	1081.3	47.7	0.6	0.0	0.6	0.0	0.0	0.0
47.5°	1675.8	785.2	32.4	0.0	0.0	0.6	0.0	0.0	0.0
50°	1286.2	439.7	18.2	0.0	0.6	0.6	0.6	0.0	0.0
52.5°	847.6	219.6	7.1	0.0	0.6	0.6	0.6	0.0	0.0
55°	411.5	117.7	2.4	0.6	0.6	1.2	0.6	0.0	0.0
57.5°	194.2	45.9	0.6	0.6	1.2	1.2	0.6	0.0	0.0
60°	55.3	9.4	0.6	0.6	1.2	1.2	0.6	0.6	0.0
62.5°	7.7	1.2	0.6	1.2	1.2	1.2	1.2	0.6	0.0
65°	2.4	0.6	0.6	1.2	1.2	1.2	1.2	0.6	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	0.6	0.0
70°	0.0	0.6	0.6	1.2	1.2	1.2	1.2	0.6	0.0
72.5°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.0
75°	0.0	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.6
77.5°	0.0	0.6	1.2	1.2	1.8	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
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)