

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: P497277

Luminaire Tested: **LDA2B158027R35D010 2LBD1WMH-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: P497277  
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: LDA2B158027R35D010 2LBD1WMH-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

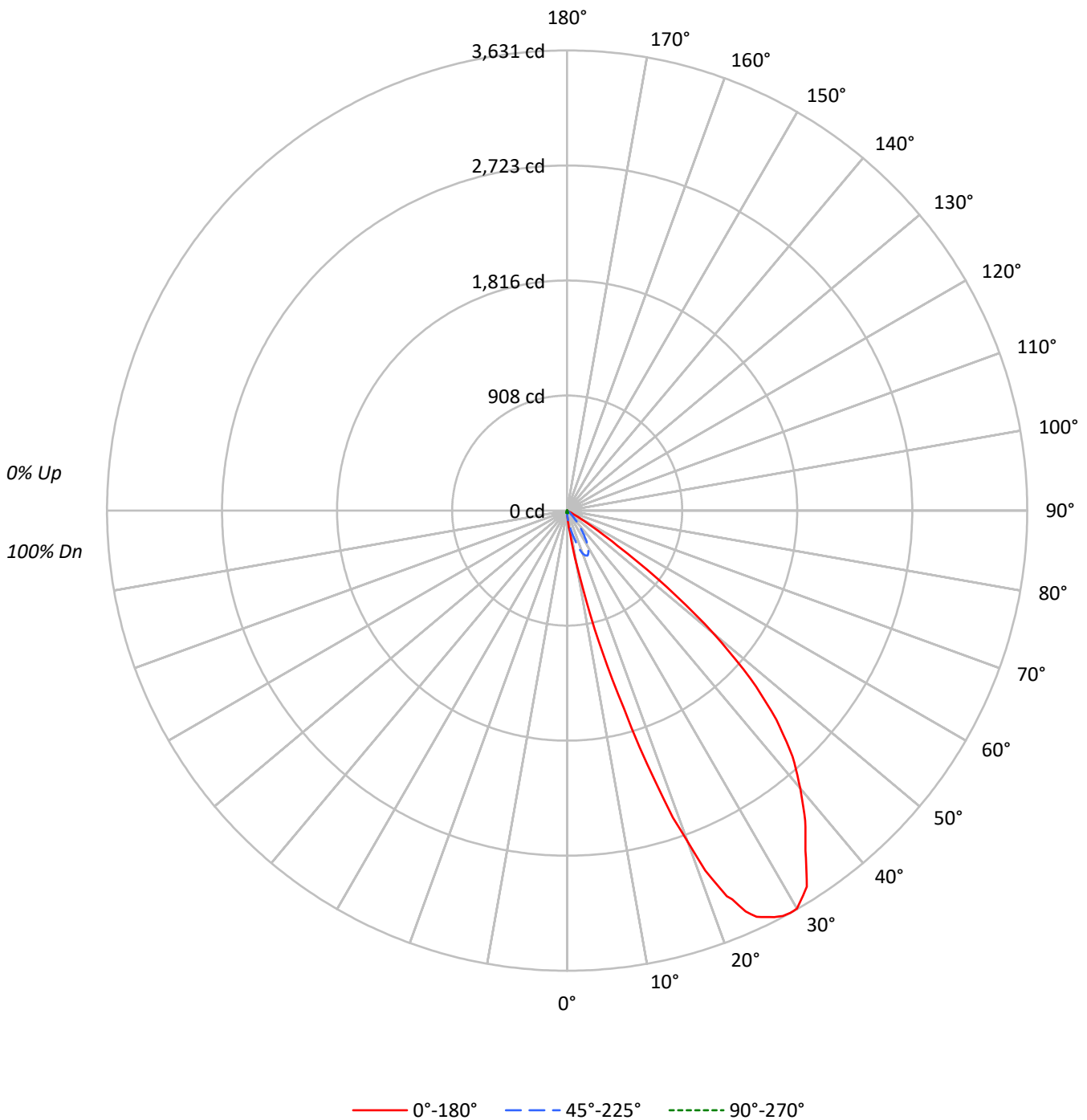
Lumens per Lamp: N/A  
Luminaire Lumens: 979.9 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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





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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°	16330	16330	16330
5°	51208	14362	8865
10°	218675	12073	6563
15°	706593	8785	5261
20°	1456261	5408	3623
25°	1925472	2613	2232
30°	2065336	1196	1196
35°	1973743	843	422
40°	1842786	451	0
45°	1628755	0	0
50°	1156521	537	0
55°	414678	602	0
60°	63940	1381	0
65°	3269	1634	0
70°	0	2019	0
75°	0	2669	1334
80°	0	3978	0
85°	0	7925	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.8	0.6
10°-20°	79.3	8.1
20°-30°	265.5	27.1
30°-40°	334.4	34.1
40°-50°	236.5	24.1
50°-60°	54.5	5.6
60°-70°	1.8	0.2
70°-80°	1.1	0.1
80°-90°	1.0	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°	350.6	35.8
0°-40°	684.9	69.9
0°-60°	976.0	99.6
0°-90°	979.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	979.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	103	68	29	21	18	19
15°	1383	244	17	12	10	456
25°	3537	386	5	5	4	1594
35°	3277	226	1	1	1	2052
45°	2334	56	0	0	0	1751
55°	482	3	1	1	0	545
65°	3	1	1	1	0	11
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°	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
1°	41.4	40.0	37.9	34.5	31.0	29.7	29.7	27.6	27.6
2°	49.7	47.6	43.4	36.6	31.0	27.6	26.2	24.8	24.1
3°	64.1	58.6	49.7	39.3	30.3	26.2	25.5	22.1	22.1
4°	80.0	74.5	57.2	41.4	29.7	24.8	22.1	20.7	20.0
5°	103.4	91.0	67.6	43.4	29.0	23.4	20.7	18.6	17.9
6°	133.8	116.5	77.2	45.5	28.3	22.1	19.3	17.2	16.6
7°	168.3	144.8	89.0	47.6	26.9	20.7	17.9	16.6	15.9
8°	241.4	186.2	102.8	49.0	26.2	19.3	17.2	15.2	14.5
9°	322.7	240.7	117.9	51.0	24.8	18.6	15.9	14.5	13.8
10°	436.5	315.2	135.2	52.4	24.1	17.2	14.5	13.8	13.1
11°	549.6	407.6	156.5	53.1	22.8	15.2	14.5	13.8	13.1
12°	735.8	495.8	175.2	53.1	21.4	14.5	13.1	12.4	11.7
13°	956.5	647.6	202.1	53.8	19.3	13.8	12.4	11.7	11.7
14°	1151.0	783.4	220.0	53.8	18.6	12.4	11.7	11.7	11.0
15°	1383.4	915.8	244.1	53.1	17.2	11.7	11.7	11.0	10.3
16°	1626.8	1114.4	276.5	51.7	15.9	10.3	11.0	9.7	9.0
17°	1949.6	1278.6	301.4	50.3	14.5	9.7	9.7	9.7	9.0
18°	2244.8	1477.9	321.4	49.0	13.1	9.7	9.0	9.0	8.3
19°	2561.3	1637.9	341.4	46.9	11.7	8.3	8.3	8.3	7.6
20°	2773.7	1834.4	363.4	44.8	10.3	7.6	8.3	7.6	6.9
21°	3042.7	2010.3	371.7	42.8	9.0	6.9	6.9	6.9	6.2
22.5°	3294.4	2244.1	384.8	38.6	7.6	5.5	6.2	5.5	5.5
23°	3333.0	2293.7	384.8	37.2	6.9	5.5	6.2	5.5	5.5
24°	3461.3	2429.6	389.6	34.5	5.5	4.8	5.5	4.8	4.8
25°	3537.1	2537.2	386.2	31.7	4.8	4.8	4.8	4.8	4.1
26°	3568.2	2566.8	377.9	29.7	4.1	4.1	4.8	4.1	3.4
27°	3600.6	2634.4	367.6	26.9	3.4	4.1	4.1	4.1	3.4
28°	3623.3	2642.7	357.2	24.8	2.8	3.4	4.1	3.4	3.4
29°	3630.9	2653.7	344.8	22.1	2.1	2.8	3.4	2.8	2.8
30°	3625.4	2651.6	326.9	20.0	2.1	2.8	2.8	2.8	2.1
32.5°	3519.9	2592.3	277.2	14.5	1.4	2.1	2.1	2.1	1.4
35°	3277.1	2455.8	226.2	9.7	1.4	1.4	1.4	1.4	0.7
37.5°	3085.4	2251.7	173.1	5.5	0.7	1.4	1.4	0.7	0.0
40°	2861.3	1955.8	124.8	3.4	0.7	0.7	0.7	0.0	0.0
42.5°	2633.7	1654.4	84.8	1.4	0.0	0.7	0.7	0.0	0.0
45°	2334.4	1266.9	55.9	0.7	0.0	0.7	0.0	0.0	0.0
47.5°	1963.4	920.0	37.9	0.0	0.0	0.7	0.0	0.0	0.0
50°	1506.8	515.2	21.4	0.0	0.7	0.7	0.7	0.0	0.0
52.5°	993.1	257.2	8.3	0.0	0.7	0.7	0.7	0.0	0.0
55°	482.1	137.9	2.8	0.7	0.7	1.4	0.7	0.0	0.0
57.5°	227.6	53.8	0.7	0.7	1.4	1.4	0.7	0.0	0.0
60°	64.8	11.0	0.7	0.7	1.4	1.4	0.7	0.7	0.0
62.5°	9.0	1.4	0.7	1.4	1.4	1.4	1.4	0.7	0.0
65°	2.8	0.7	0.7	1.4	1.4	1.4	1.4	0.7	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	0.7	0.0
70°	0.0	0.7	0.7	1.4	1.4	1.4	1.4	0.7	0.0
72.5°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
75°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.7
77.5°	0.0	0.7	1.4	1.4	2.1	1.4	1.4	0.7	0.0
80°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
82.5°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
85°	0.0	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.0
87.5°	0.0	0.7	1.4	1.4	1.4	1.4	0.7	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)