

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: P498565

Luminaire Tested: **LDA2B159027R35D010 2LBD1MMS-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: P498565  
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: LDA2B159027R35D010 2LBD1MMS-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

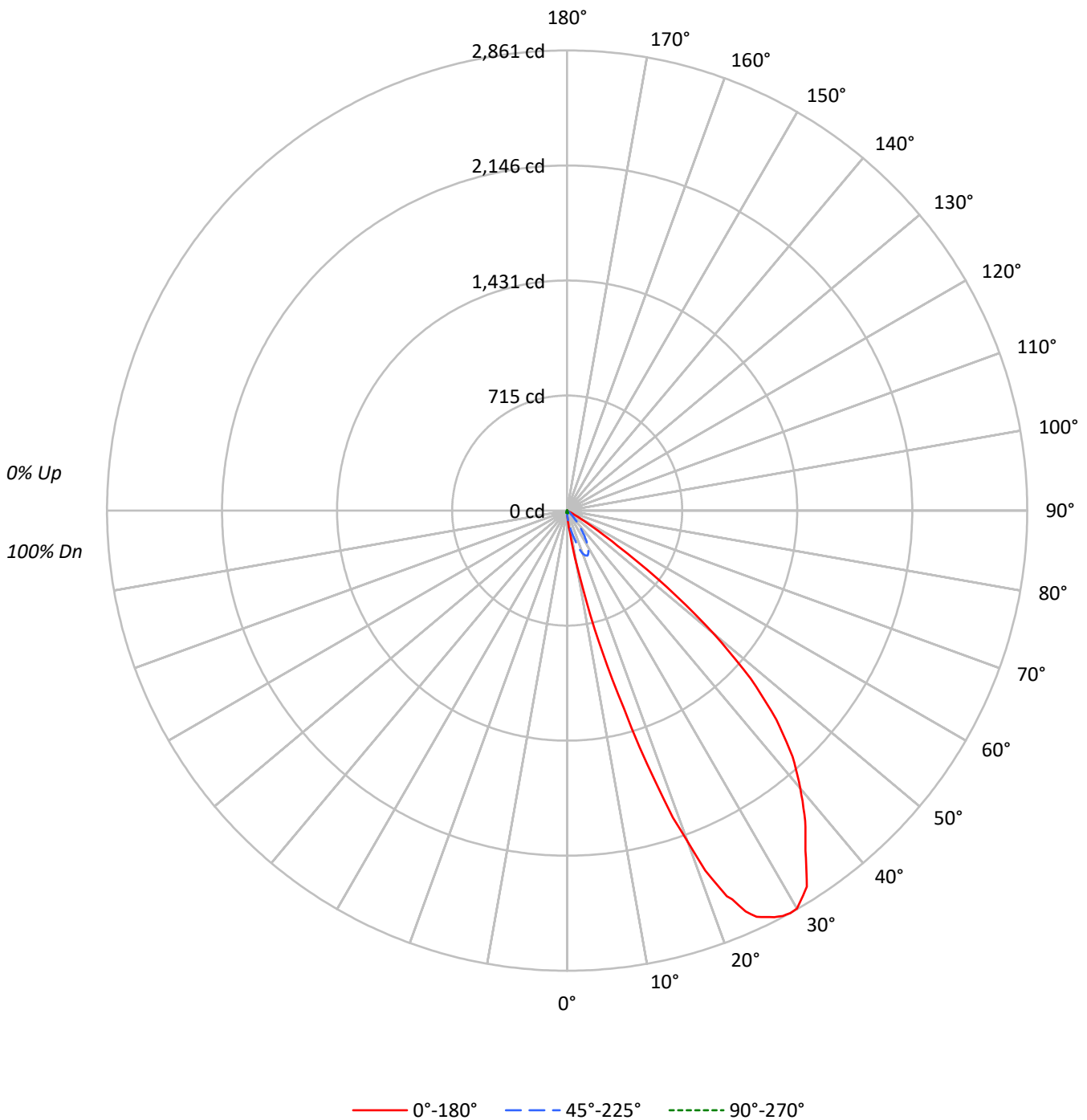
Lumens per Lamp: N/A  
Luminaire Lumens: 772.1 lumens  
Efficiency: N/A  
Efficacy: 54.8 lumens/watt  
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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					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	84	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°	12877	12877	12877
5°	40363	11292	6983
10°	172335	9518	5160
15°	556837	6946	4188
20°	1147599	4305	2835
25°	1517362	2069	1796
30°	1627590	911	911
35°	1555397	663	301
40°	1452177	322	0
45°	1283524	0	0
50°	911447	384	0
55°	326771	430	0
60°	50422	1085	0
65°	2568	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°	4.6	0.6
10°-20°	62.5	8.1
20°-30°	209.2	27.1
30°-40°	263.5	34.1
40°-50°	186.4	24.1
50°-60°	43.0	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°	276.3	35.8
0°-40°	539.8	69.9
0°-60°	769.1	99.6
0°-90°	772.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	772.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	82	53	23	16	14	15
15°	1090	192	14	9	8	359
25°	2787	304	4	4	3	1256
35°	2582	178	1	1	0	1617
45°	1840	44	0	0	0	1380
55°	380	2	0	0	0	430
65°	2	0	1	1	0	9
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°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
1°	32.6	31.5	29.9	27.2	24.5	23.4	23.4	21.7	21.7
2°	39.1	37.5	34.2	28.8	24.5	21.7	20.7	19.6	19.0
3°	50.5	46.2	39.1	31.0	23.9	20.7	20.1	17.4	17.4
4°	63.0	58.7	45.1	32.6	23.4	19.6	17.4	16.3	15.8
5°	81.5	71.7	53.3	34.2	22.8	18.5	16.3	14.7	14.1
6°	105.4	91.8	60.9	35.9	22.3	17.4	15.2	13.6	13.0
7°	132.6	114.1	70.1	37.5	21.2	16.3	14.1	13.0	12.5
8°	190.2	146.7	81.0	38.6	20.7	15.2	13.6	12.0	11.4
9°	254.3	189.7	92.9	40.2	19.6	14.7	12.5	11.4	10.9
10°	344.0	248.4	106.5	41.3	19.0	13.6	11.4	10.9	10.3
11°	433.1	321.2	123.4	41.8	17.9	12.0	11.4	10.9	10.3
12°	579.9	390.7	138.0	41.8	16.8	11.4	10.3	9.8	9.2
13°	753.8	510.3	159.2	42.4	15.2	10.9	9.8	9.2	9.2
14°	907.0	617.4	173.4	42.4	14.7	9.8	9.2	9.2	8.7
15°	1090.2	721.7	192.4	41.8	13.6	9.2	9.2	8.7	8.2
16°	1282.0	878.2	217.9	40.8	12.5	8.2	8.7	7.6	7.1
17°	1536.4	1007.6	237.5	39.7	11.4	7.6	7.6	7.6	7.1
18°	1769.0	1164.6	253.3	38.6	10.3	7.6	7.1	7.1	6.5
19°	2018.4	1290.7	269.0	37.0	9.2	6.5	6.5	6.5	6.0
20°	2185.8	1445.6	286.4	35.3	8.2	6.0	6.5	6.0	5.4
21°	2397.7	1584.2	292.9	33.7	7.1	5.4	5.4	5.4	4.9
22.5°	2596.1	1768.4	303.3	30.4	6.0	4.3	4.9	4.3	4.3
23°	2626.5	1807.5	303.3	29.3	5.4	4.3	4.9	4.3	4.3
24°	2727.6	1914.6	307.1	27.2	4.3	3.8	4.3	3.8	3.8
25°	2787.4	1999.4	304.3	25.0	3.8	3.8	3.8	3.8	3.3
26°	2811.9	2022.8	297.8	23.4	3.3	3.3	3.8	3.3	2.7
27°	2837.4	2076.0	289.7	21.2	2.7	3.3	3.3	3.3	2.7
28°	2855.3	2082.5	281.5	19.6	2.2	2.7	3.3	2.7	2.7
29°	2861.3	2091.2	271.7	17.4	1.6	2.2	2.7	2.2	2.2
30°	2857.0	2089.6	257.6	15.8	1.6	2.2	2.2	2.2	1.6
32.5°	2773.8	2042.9	218.5	11.4	1.1	1.6	1.6	1.6	1.1
35°	2582.5	1935.3	178.3	7.6	1.1	1.1	1.1	1.1	0.5
37.5°	2431.4	1774.4	136.4	4.3	0.5	1.1	1.1	0.5	0.0
40°	2254.8	1541.3	98.4	2.7	0.5	0.5	0.5	0.0	0.0
42.5°	2075.5	1303.8	66.8	1.1	0.0	0.5	0.5	0.0	0.0
45°	1839.6	998.3	44.0	0.5	0.0	0.5	0.0	0.0	0.0
47.5°	1547.2	725.0	29.9	0.0	0.0	0.5	0.0	0.0	0.0
50°	1187.5	406.0	16.8	0.0	0.5	0.5	0.5	0.0	0.0
52.5°	782.6	202.7	6.5	0.0	0.5	0.5	0.5	0.0	0.0
55°	379.9	108.7	2.2	0.5	0.5	1.1	0.5	0.0	0.0
57.5°	179.3	42.4	0.5	0.5	1.1	1.1	0.5	0.0	0.0
60°	51.1	8.7	0.5	0.5	1.1	1.1	0.5	0.5	0.0
62.5°	7.1	1.1	0.5	1.1	1.1	1.1	1.1	0.5	0.0
65°	2.2	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)