

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: P498265

Luminaire Tested: **LDA2B159024R20D010 2LBD1MB-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: P498265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B159024R20D010 2LBD1MB-30DEG TILT  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

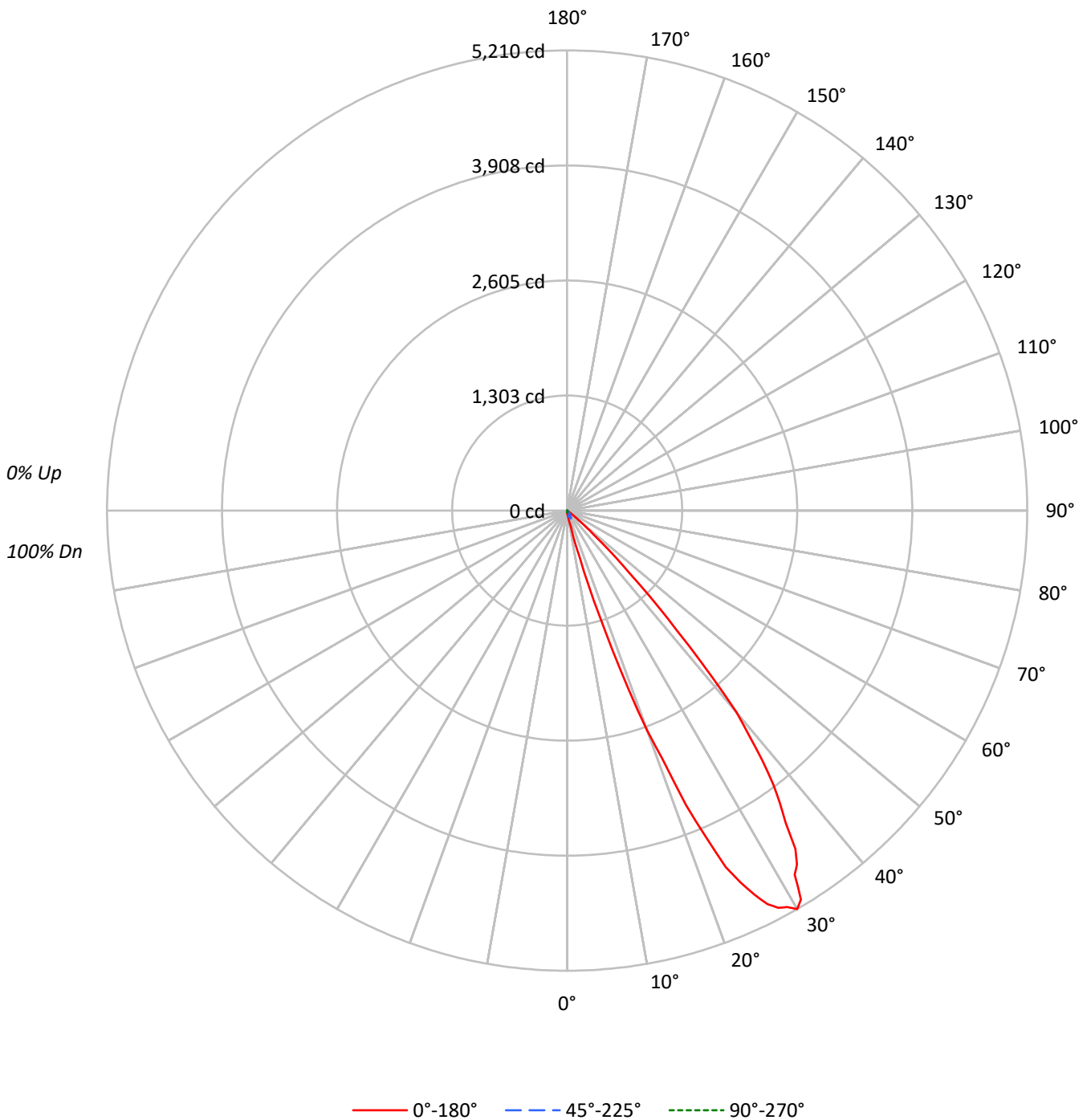
Lumens per Lamp: N/A  
Luminaire Lumens: 657.8 lumens  
Efficiency: N/A  
Efficacy: 46.7 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.56 / 1.2  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
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





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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43					43			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

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

	0°	90°	180°
0°	10459	10459	10459
5°	19958	9261	6735
10°	47743	8066	4559
15°	278214	6436	1788
20°	1387850	3990	525
25°	2530642	1361	0
30°	2968173	0	0
35°	2597890	0	0
40°	1918461	0	0
45°	691509	0	0
50°	143990	0	0
55°	32944	430	0
60°	10459	493	0
65°	2335	1167	0
70°	0	1442	721
75°	0	1906	0
80°	0	2841	0
85°	0	5661	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.4	0.4
10°-20°	36.1	5.5
20°-30°	243.6	37.0
30°-40°	284.6	43.3
40°-50°	83.0	12.6
50°-60°	5.5	0.8
60°-70°	1.0	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°	282.2	42.9
0°-40°	566.8	86.2
0°-60°	655.3	99.6
0°-90°	657.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	657.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	40	29	19	16	14	5
15°	545	62	13	7	4	284
25°	4649	95	2	0	0	2058
35°	4313	51	0	0	0	2650
45°	991	11	0	0	0	913
55°	38	2	0	0	0	49
65°	2	1	1	1	0	3
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°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
2.5°	27.2	27.2	24.2	21.7	19.7	18.7	18.2	17.1	16.6
5°	40.3	35.3	29.3	22.7	18.7	17.1	15.6	14.1	13.6
7.5°	59.0	51.4	35.3	23.2	17.7	15.1	13.6	12.1	11.1
10°	95.3	74.1	43.4	23.2	16.1	13.1	11.1	9.6	9.1
12.5°	176.0	113.5	52.0	22.7	14.6	11.1	8.6	7.6	6.1
15°	544.7	235.0	61.5	21.7	12.6	8.6	6.6	4.0	3.5
17.5°	1408.7	548.8	68.6	19.2	10.1	6.1	3.0	2.5	2.5
20°	2643.4	995.1	78.7	16.6	7.6	4.0	2.0	1.5	1.0
21°	3015.7	1217.6	83.7	15.6	6.6	2.5	1.5	0.5	0.5
22°	3594.2	1460.2	87.8	14.6	5.5	1.5	1.0	0.5	0.0
23°	4006.2	1615.0	91.8	13.1	4.0	1.5	0.5	0.0	0.0
24°	4418.3	1812.2	94.3	12.1	3.5	1.0	0.5	0.0	0.0
25°	4648.8	1976.6	95.3	11.1	2.5	0.5	0.0	0.0	0.0
26°	4838.5	2086.6	95.8	10.1	1.5	0.0	0.0	0.0	0.0
27°	5000.9	2214.2	94.8	9.1	1.5	0.0	0.0	0.0	0.0
28°	5093.2	2235.4	93.3	8.1	0.5	0.0	0.0	0.0	0.0
29°	5133.0	2209.7	88.8	7.1	0.5	0.0	0.0	0.0	0.0
30°	5210.2	2185.5	84.2	6.6	0.0	0.0	0.0	0.0	0.0
31°	5139.1	2105.3	78.7	5.5	0.0	0.0	0.0	0.0	0.0
32°	4860.7	2037.7	72.1	4.5	0.0	0.0	0.0	0.0	0.0
33°	4777.4	1899.0	65.1	4.0	0.0	0.0	0.0	0.0	0.0
34°	4620.6	1692.7	59.0	3.5	0.0	0.0	0.0	0.0	0.0
35°	4313.4	1522.2	51.4	3.0	0.0	0.0	0.0	0.0	0.0
36°	4099.1	1327.5	44.9	2.5	0.0	0.0	0.0	0.0	0.0
37°	3874.6	1157.5	39.8	2.0	0.0	0.0	0.0	0.0	0.0
38°	3595.7	979.0	33.8	1.5	0.0	0.0	0.0	0.0	0.0
39°	3270.9	809.0	28.7	1.5	0.0	0.0	0.0	0.0	0.0
40°	2978.8	652.2	24.7	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	1838.4	372.2	14.6	1.0	0.0	0.0	0.0	0.0	0.0
45°	991.1	226.0	10.6	0.5	0.0	0.0	0.0	0.0	0.0
47.5°	456.5	105.4	7.6	0.5	0.0	0.0	0.0	0.0	0.0
50°	187.6	46.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	67.6	26.2	3.5	0.0	0.0	0.5	0.0	0.0	0.0
55°	38.3	15.1	2.0	0.5	0.5	0.5	0.5	0.0	0.0
57.5°	18.2	8.6	0.5	0.5	0.5	0.5	0.5	0.0	0.0
60°	10.6	4.5	0.5	0.5	0.5	1.0	0.5	0.0	0.0
62.5°	5.0	1.5	0.5	1.0	1.0	1.0	1.0	0.5	0.0
65°	2.0	0.5	1.0	1.0	1.0	1.5	1.0	0.5	0.0
67.5°	0.5	0.5	1.0	1.0	1.0	1.5	1.0	0.5	0.5
70°	0.0	0.5	1.0	1.0	1.0	1.5	1.0	0.5	0.5
72.5°	0.0	0.5	1.0	1.0	1.0	1.5	1.0	0.5	0.5
75°	0.0	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.0
77.5°	0.0	0.5	1.0	1.0	1.0	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



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
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)