

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1178175

Luminaire Tested: LDA2B058030R2050D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B058030R2050D010 2LBDC1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

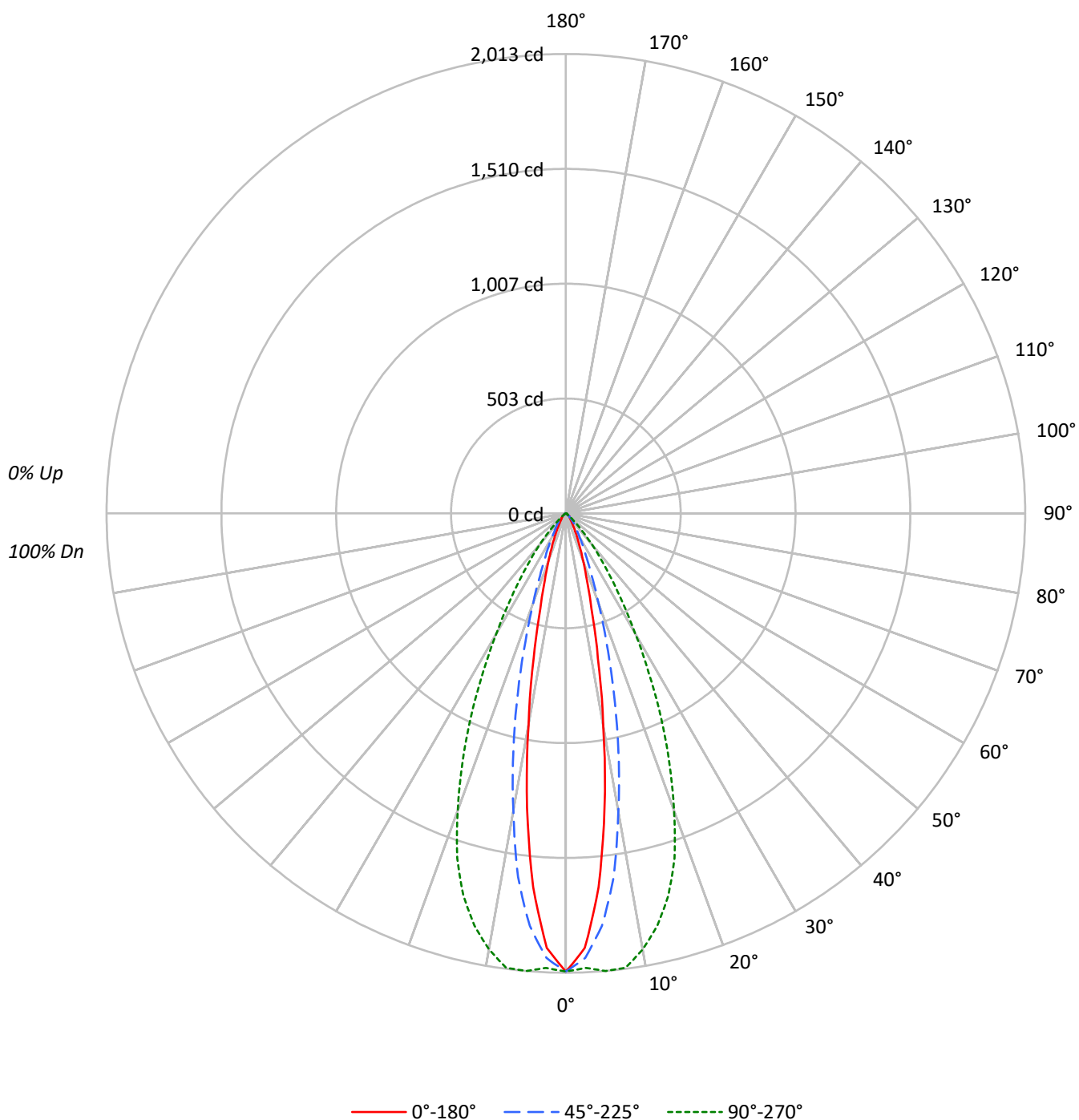
Lumens per Lamp: N/A
Luminaire Lumens: 721.7 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	990572	990572	990572
5°	814383	898575	996832
10°	472718	663989	971887
15°	220242	413567	885668
20°	116030	218043	727947
25°	64289	118073	536907
30°	37656	69160	347223
35°	24212	46376	205740
40°	18870	31300	114317
45°	16327	18699	50794
50°	14813	12818	18651
55°	10064	9376	8602
60°	7400	6611	6611
65°	5837	4903	5837
70°	4760	4760	4760
75°	4766	4766	4766
80°	4830	4830	4830
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 50794 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	22.2
10°-20°	261.8	36.3
20°-30°	174.6	24.2
30°-40°	78.7	10.9
40°-50°	28.8	4.0
50°-60°	10.1	1.4
60°-70°	4.7	0.7
70°-80°	2.5	0.3
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°	596.2	82.6
0°-40°	674.9	93.5
0°-60°	713.8	98.9
0°-90°	721.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	721.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	1644	1696	1814	1947	2013	134
15°	431	507	810	1368	1734	129
25°	118	137	217	591	986	57
35°	40	45	77	167	342	27
45°	23	23	27	42	73	18
55°	12	11	11	9	10	11
65°	5	5	4	4	5	5
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2007.8	2007.8	2007.8	2007.8	2007.8
2.5°	1906.5	1926.6	1950.0	1974.3	1993.6
5°	1644.4	1695.5	1814.4	1946.7	2012.8
7.5°	1300.3	1375.7	1606.8	1868.0	2007.8
10°	943.6	1039.9	1325.4	1731.5	1940.0
12.5°	648.9	739.3	1063.4	1559.0	1850.4
15°	431.2	506.6	809.7	1368.1	1734.0
17.5°	303.9	355.0	588.6	1159.6	1584.1
20°	221.0	255.4	415.3	955.3	1386.5
22.5°	160.8	186.7	295.6	763.6	1186.4
25°	118.1	137.3	216.9	591.1	986.3
27.5°	87.9	103.0	162.4	448.8	786.2
30°	66.1	78.7	121.4	330.7	609.5
32.5°	51.1	59.4	92.9	236.1	461.3
35°	40.2	45.2	77.0	166.6	341.6
37.5°	33.5	36.8	63.6	116.4	250.3
40°	29.3	31.8	48.6	82.9	177.5
42.5°	26.0	27.6	35.2	59.4	115.5
45°	23.4	23.4	26.8	41.9	72.8
47.5°	21.8	19.3	20.9	29.3	42.7
50°	19.3	15.9	16.7	20.1	24.3
52.5°	15.1	13.4	13.4	13.4	14.2
55°	11.7	10.9	10.9	9.2	10.0
57.5°	9.2	9.2	8.4	7.5	8.4
60°	7.5	7.5	6.7	5.9	6.7
62.5°	5.9	5.9	5.0	5.0	5.9
65°	5.0	5.0	4.2	4.2	5.0
67.5°	4.2	4.2	4.2	3.3	4.2
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.5	2.5	3.3	2.5	2.5
75°	2.5	2.5	2.5	2.5	2.5
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)