

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: P1178525

Luminaire Tested: LDA2B059050R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178525
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: LDA2B059050R2050D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

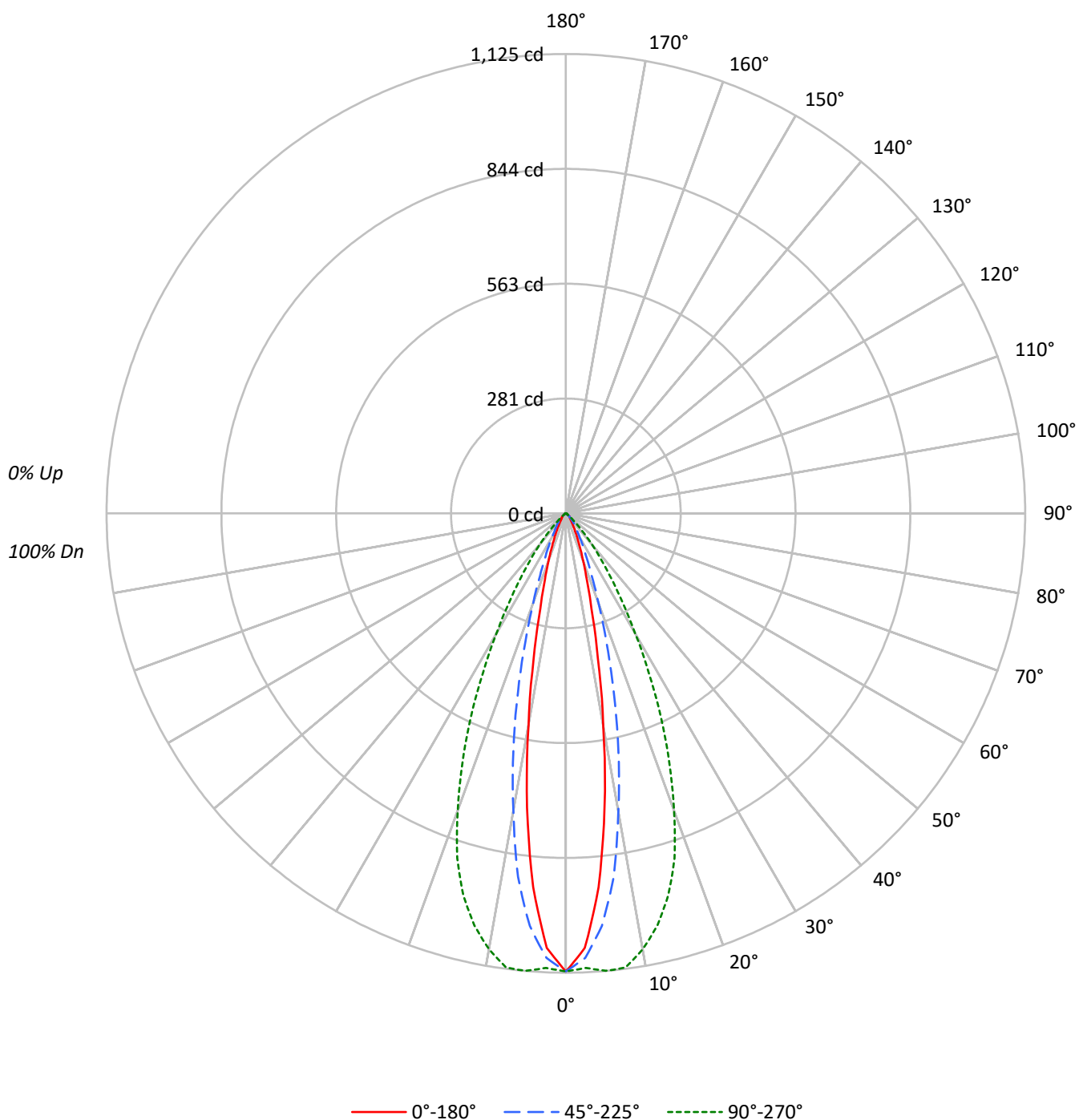
Lumens per Lamp: N/A
Luminaire Lumens: 403.3 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	553503	553503	553503
5°	455082	502081	557004
10°	264163	371020	543054
15°	123043	231070	494881
20°	64841	121858	406789
25°	35928	65977	299999
30°	21078	38625	194035
35°	13551	25898	114976
40°	10562	17453	63889
45°	9140	10466	28397
50°	8289	7215	10438
55°	5677	5247	4817
60°	4144	3651	3651
65°	3269	2685	3269
70°	2741	2741	2741
75°	2669	2669	2669
80°	2557	2557	2557
85°	2830	2830	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 28397 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	22.1
10°-20°	146.3	36.3
20°-30°	97.6	24.2
30°-40°	44.0	10.9
40°-50°	16.1	4.0
50°-60°	5.6	1.4
60°-70°	2.6	0.7
70°-80°	1.4	0.3
80°-90°	0.4	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°	333.2	82.6
0°-40°	377.1	93.5
0°-60°	398.9	98.9
0°-90°	403.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	403.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	919	947	1014	1088	1125	75
15°	241	283	452	764	969	72
25°	66	77	121	330	551	32
35°	22	25	43	93	191	15
45°	13	13	15	23	41	10
55°	7	6	6	5	6	6
65°	3	3	2	2	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1121.9	1121.9	1121.9	1121.9	1121.9
2.5°	1065.3	1076.5	1089.6	1103.2	1114.0
5°	918.9	947.4	1013.8	1087.8	1124.7
7.5°	726.6	768.7	897.8	1043.8	1121.9
10°	527.3	581.1	740.6	967.5	1084.0
12.5°	362.6	413.1	594.2	871.2	1034.0
15°	240.9	283.1	452.4	764.5	968.9
17.5°	169.8	198.4	328.9	648.0	885.2
20°	123.5	142.7	232.1	533.8	774.8
22.5°	89.8	104.3	165.2	426.7	663.0
25°	66.0	76.7	121.2	330.3	551.1
27.5°	49.1	57.5	90.8	250.8	439.3
30°	37.0	44.0	67.8	184.8	340.6
32.5°	28.5	33.2	51.9	131.9	257.8
35°	22.5	25.3	43.0	93.1	190.9
37.5°	18.7	20.6	35.6	65.0	139.9
40°	16.4	17.8	27.1	46.3	99.2
42.5°	14.5	15.4	19.7	33.2	64.6
45°	13.1	13.1	15.0	23.4	40.7
47.5°	12.2	10.8	11.7	16.4	23.9
50°	10.8	8.9	9.4	11.2	13.6
52.5°	8.4	7.5	7.5	7.5	8.0
55°	6.6	6.1	6.1	5.1	5.6
57.5°	5.1	5.1	4.7	4.2	4.7
60°	4.2	4.2	3.7	3.3	3.7
62.5°	3.3	3.3	2.8	2.8	3.3
65°	2.8	2.8	2.3	2.3	2.8
67.5°	2.3	2.3	2.3	1.9	2.3
70°	1.9	1.9	1.9	1.9	1.9
72.5°	1.4	1.4	1.9	1.4	1.4
75°	1.4	1.4	1.4	1.4	1.4
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.5	0.5
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)