

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: P1178406

Luminaire Tested: LDA2B059030R2050D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178406
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: LDA2B059030R2050D010 2LBDC1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

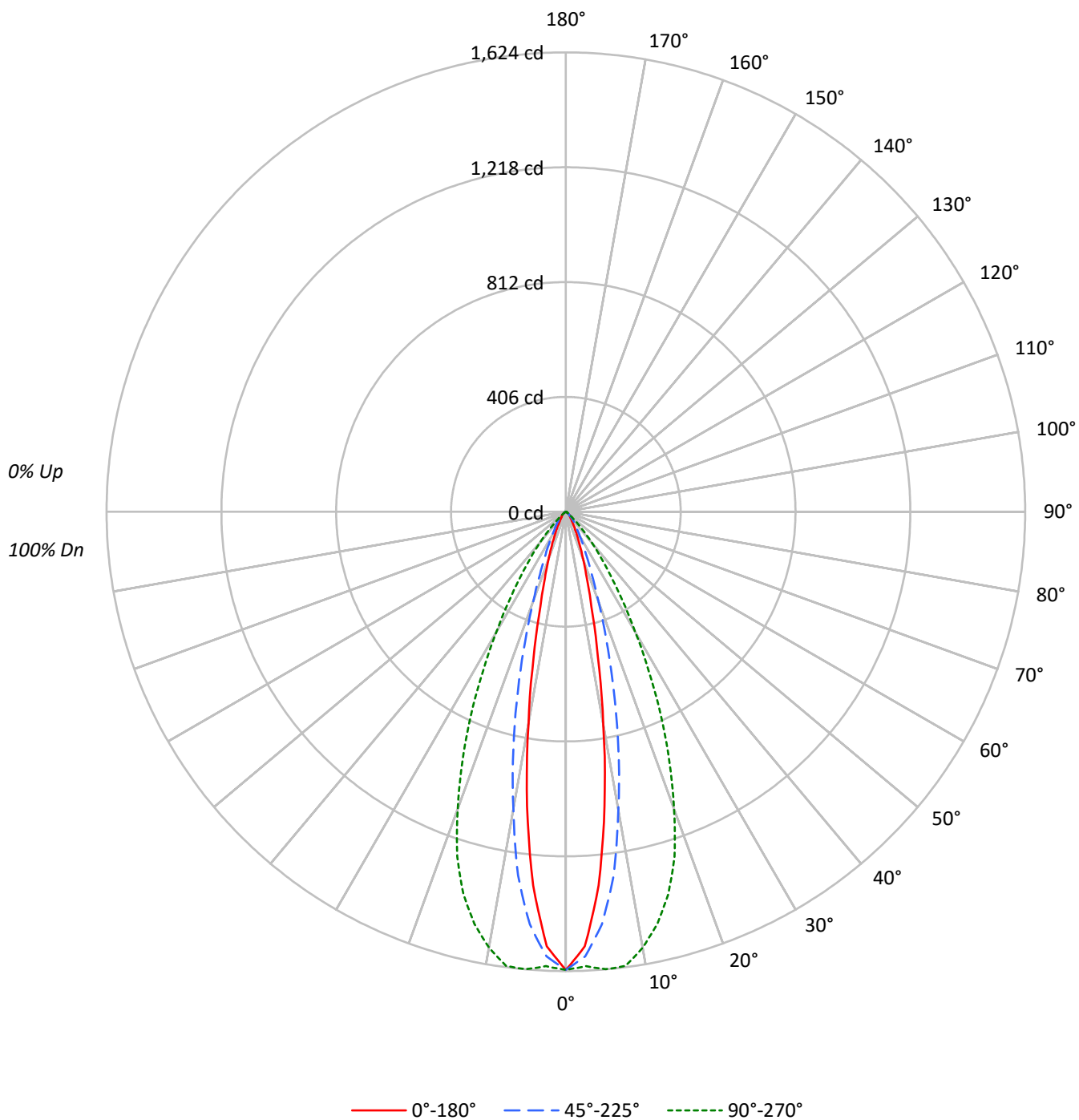
Lumens per Lamp: N/A
Luminaire Lumens: 582.2 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1178406

CATALOG NUMBER: LDA2B059030R2050D010 2LBDC1MB

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°	798999	798999	798999
5°	656895	724793	804082
10°	381290	535590	783922
15°	177644	333581	714408
20°	93612	175883	587188
25°	51824	95209	433096
30°	30421	55772	280114
35°	19514	37402	165929
40°	15199	25246	92226
45°	13187	15071	41026
50°	11897	10362	15044
55°	8171	7569	6967
60°	6019	5328	5328
65°	4786	3969	4786
70°	3895	3895	3895
75°	3812	3812	3812
80°	3978	3978	3978
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 41026 cd/sqm

TEST NUMBER: P1178406

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	22.1
10°-20°	211.1	36.3
20°-30°	140.8	24.2
30°-40°	63.5	10.9
40°-50°	23.2	4.0
50°-60°	8.1	1.4
60°-70°	3.8	0.7
70°-80°	2.0	0.3
80°-90°	0.6	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°	480.9	82.6
0°-40°	544.4	93.5
0°-60°	575.8	98.9
0°-90°	582.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	582.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1620	1620	1620	1620	1620	
5°	1326	1368	1464	1570	1624	108
15°	348	409	653	1104	1399	104
25°	95	111	175	477	796	46
35°	32	36	62	134	276	21
45°	19	19	22	34	59	15
55°	10	9	9	7	8	9
65°	4	4	3	3	4	4
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°	1619.5	1619.5	1619.5	1619.5	1619.5
2.5°	1537.8	1554.0	1572.9	1592.5	1608.0
5°	1326.4	1367.6	1463.5	1570.2	1623.6
7.5°	1048.8	1109.6	1296.0	1506.7	1619.5
10°	761.1	838.8	1069.1	1396.6	1564.8
12.5°	523.4	596.3	857.7	1257.5	1492.5
15°	347.8	408.6	653.1	1103.5	1398.7
17.5°	245.2	286.4	474.8	935.4	1277.8
20°	178.3	206.0	335.0	770.6	1118.4
22.5°	129.7	150.6	238.4	615.9	957.0
25°	95.2	110.8	174.9	476.8	795.6
27.5°	70.9	83.1	131.0	362.0	634.2
30°	53.4	63.5	97.9	266.8	491.7
32.5°	41.2	48.0	75.0	190.5	372.1
35°	32.4	36.5	62.1	134.4	275.5
37.5°	27.0	29.7	51.3	93.9	201.9
40°	23.6	25.7	39.2	66.9	143.2
42.5°	20.9	22.3	28.4	48.0	93.2
45°	18.9	18.9	21.6	33.8	58.8
47.5°	17.6	15.5	16.9	23.6	34.4
50°	15.5	12.8	13.5	16.2	19.6
52.5°	12.2	10.8	10.8	10.8	11.5
55°	9.5	8.8	8.8	7.4	8.1
57.5°	7.4	7.4	6.8	6.1	6.8
60°	6.1	6.1	5.4	4.7	5.4
62.5°	4.7	4.7	4.1	4.1	4.7
65°	4.1	4.1	3.4	3.4	4.1
67.5°	3.4	3.4	3.4	2.7	3.4
70°	2.7	2.7	2.7	2.7	2.7
72.5°	2.0	2.0	2.7	2.0	2.0
75°	2.0	2.0	2.0	2.0	2.0
77.5°	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	0.7	0.7	0.7
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)