

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: P1178588

Luminaire Tested: LDA2B059730R2040D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B059730R2040D010 2LBDC1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

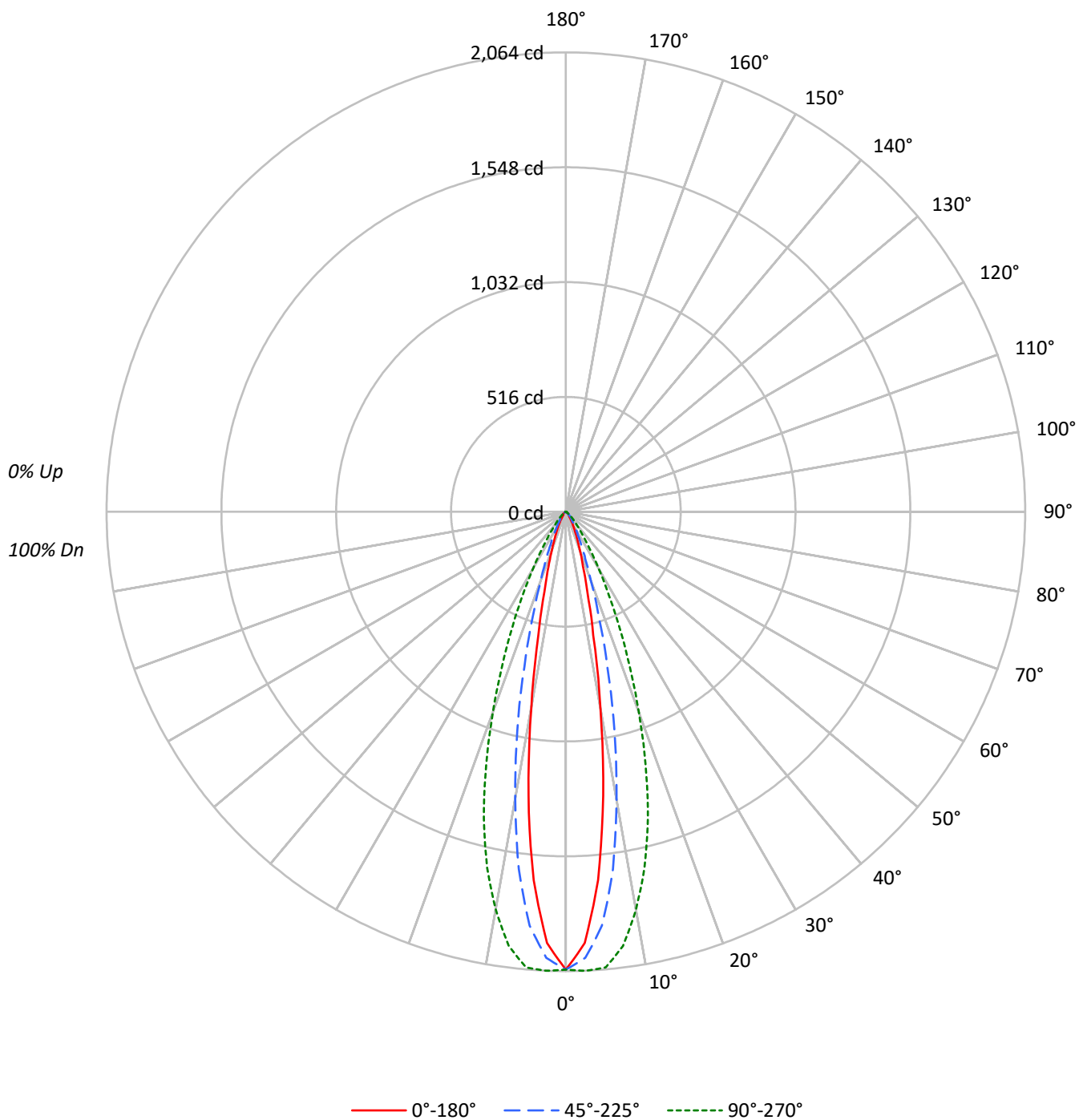
Lumens per Lamp: N/A
Luminaire Lumens: 579.8 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	110	108	112	110	108	106	106	104	103		102	101	100		99
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92
4	102	95	91	87	100	94	90	87	92	89	86		90	87	85		89
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86
6	94	87	83	79	93	87	82	79	85	81	78		84	80	78		83
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1014944	1014944	1014944
5°	822703	924031	1017583
10°	447268	656074	908714
15°	189188	368160	727381
20°	96605	173101	502921
25°	53457	88568	306532
30°	29965	49164	167146
35°	17346	29753	85163
40°	12881	22541	47144
45°	11373	15280	27909
50°	11974	10055	14890
55°	8602	6967	8085
60°	5526	4934	4934
65°	4436	4436	4436
70°	3606	3606	3606
75°	3622	3622	3622
80°	3694	3694	3694
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 27909 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	27.6
10°-20°	226.7	39.1
20°-30°	116.8	20.1
30°-40°	43.0	7.4
40°-50°	18.9	3.3
50°-60°	8.3	1.4
60°-70°	3.6	0.6
70°-80°	1.8	0.3
80°-90°	0.5	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°	503.7	86.9
0°-40°	546.7	94.3
0°-60°	573.9	99.0
0°-90°	579.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	579.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2057	2057	2057	2057	2057	
5°	1661	1718	1866	1998	2055	134
15°	370	430	721	1203	1424	113
25°	98	110	163	374	563	47
35°	29	33	49	86	141	20
45°	16	19	22	26	40	13
55°	10	9	8	9	9	9
65°	4	4	4	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°	2057.2	2057.2	2057.2	2057.2	2057.2
2.5°	1939.6	1962.8	2005.9	2047.2	2064.1
5°	1661.2	1717.5	1865.8	1997.8	2054.7
7.5°	1286.4	1379.0	1619.3	1866.4	1967.8
10°	892.8	986.7	1309.6	1664.9	1813.9
12.5°	569.4	660.7	1009.2	1441.6	1634.9
15°	370.4	430.5	720.8	1202.6	1424.1
17.5°	257.2	299.7	490.5	949.2	1190.7
20°	184.0	214.0	329.7	723.9	957.9
22.5°	133.3	153.9	229.0	528.7	744.6
25°	98.2	110.1	162.7	373.5	563.1
27.5°	72.6	80.1	117.6	257.8	411.7
30°	52.6	58.8	86.3	177.1	293.4
32.5°	38.2	43.8	64.4	122.6	204.6
35°	28.8	33.2	49.4	86.3	141.4
37.5°	23.8	26.3	40.7	62.6	100.1
40°	20.0	22.5	35.0	46.3	73.2
42.5°	17.5	20.6	28.8	34.4	55.1
45°	16.3	18.8	21.9	26.3	40.0
47.5°	16.3	15.6	16.9	20.0	28.2
50°	15.6	13.1	13.1	15.6	19.4
52.5°	13.1	10.6	10.6	11.3	13.1
55°	10.0	8.8	8.1	8.8	9.4
57.5°	7.5	7.5	6.9	6.3	6.9
60°	5.6	5.6	5.0	5.0	5.0
62.5°	4.4	4.4	4.4	3.8	4.4
65°	3.8	3.8	3.8	3.1	3.8
67.5°	3.1	3.1	2.5	3.1	3.1
70°	2.5	2.5	2.5	2.5	2.5
72.5°	1.9	1.9	1.9	1.9	1.9
75°	1.9	1.9	1.9	1.9	1.9
77.5°	1.3	1.3	1.3	1.3	1.3
80°	1.3	1.3	1.3	1.3	1.3
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6
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)