

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: P1178587

Luminaire Tested: LDA2B059730R2040D010 2LBD1WMH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178587
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 2LBD1WMH
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

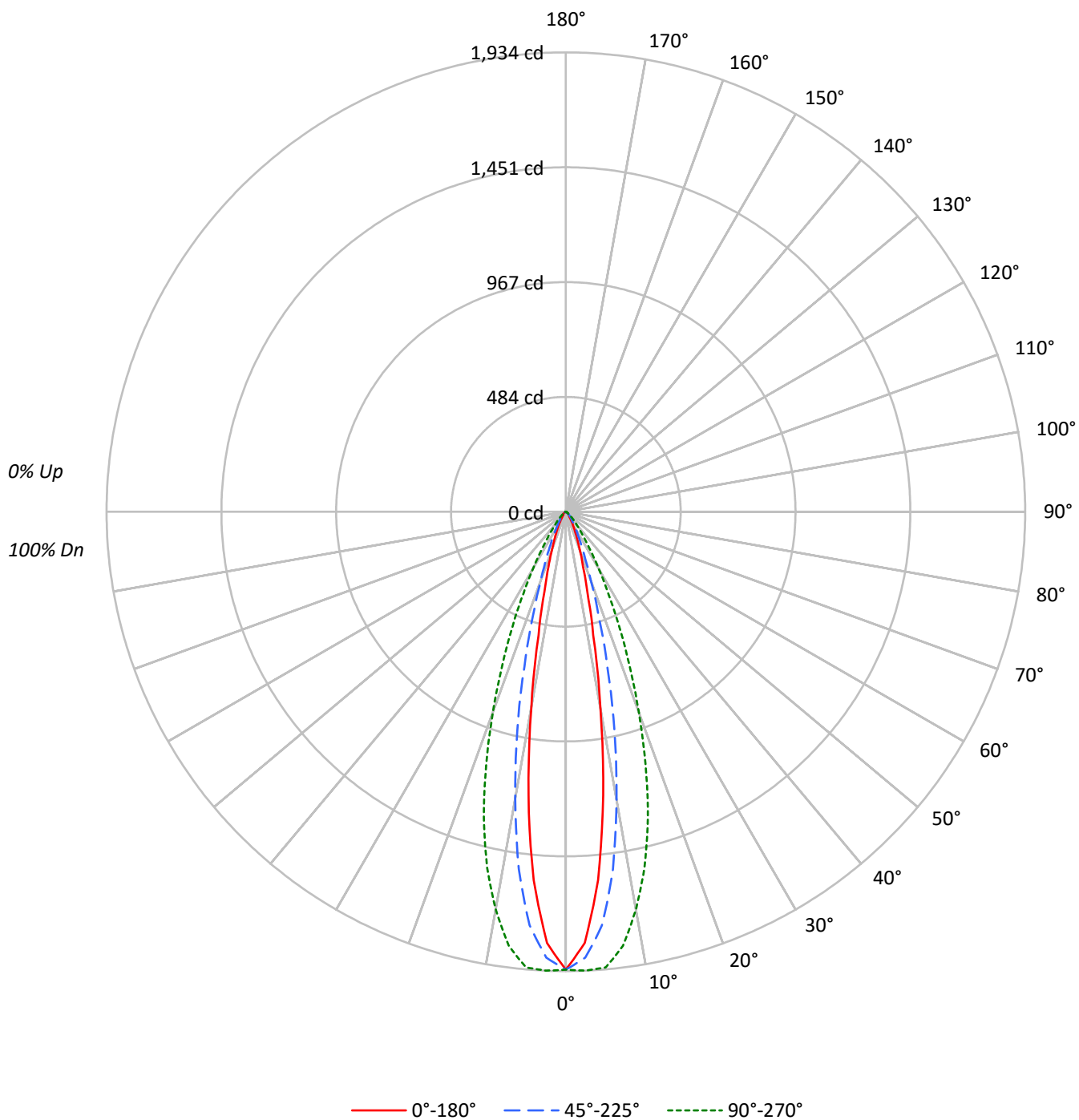
Lumens per Lamp: N/A
Luminaire Lumens: 543.2 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1178587

CATALOG NUMBER: LDA2B059730R2040D010 2LBD1WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1178587

CATALOG NUMBER: LDA2B059730R2040D010 2LBD1WMH

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	99	99
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	94	93
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91	90	89
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87	86	85
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83	82	81
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79	78	77
6	94	87	83	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76	75	74
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	73	72	71
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	70	69	68
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	67	66
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66	65	64

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	950906	950906	950906
5°	770752	865691	953349
10°	419064	614643	851353
15°	177236	344920	681464
20°	90462	162180	471210
25°	50082	82961	287207
30°	28029	46088	156606
35°	16262	27886	79803
40°	12108	21124	44181
45°	10605	14303	26164
50°	11283	9441	13969
55°	8085	6537	7569
60°	5230	4638	4638
65°	4086	4086	4086
70°	3318	3318	3318
75°	3431	3431	3431
80°	3409	3409	3409
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 26164 cd/sqm

TEST NUMBER: P1178587

CATALOG NUMBER: LDA2B059730R2040D010 2LBD1WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	27.6
10°-20°	212.4	39.1
20°-30°	109.4	20.1
30°-40°	40.3	7.4
40°-50°	17.7	3.3
50°-60°	7.8	1.4
60°-70°	3.4	0.6
70°-80°	1.7	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°	471.9	86.9
0°-40°	512.2	94.3
0°-60°	537.6	99.0
0°-90°	543.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	543.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1927	1927	1927	1927	1927	
5°	1556	1609	1748	1872	1925	125
15°	347	403	675	1127	1334	106
25°	92	103	152	350	528	44
35°	27	31	46	81	132	18
45°	15	18	20	25	38	12
55°	9	8	8	8	9	9
65°	4	4	4	3	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1178587

CATALOG NUMBER: LDA2B059730R2040D010 2LBD1WMH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1817.2	1838.9	1879.3	1918.0	1933.8
5°	1556.3	1609.1	1748.0	1871.7	1925.0
7.5°	1205.2	1292.0	1517.1	1748.6	1843.6
10°	836.5	924.4	1226.9	1559.8	1699.4
12.5°	533.4	619.0	945.5	1350.6	1531.7
15°	347.0	403.3	675.3	1126.7	1334.2
17.5°	240.9	280.8	459.6	889.2	1115.5
20°	172.3	200.5	308.9	678.2	897.5
22.5°	124.9	144.2	214.5	495.3	697.6
25°	92.0	103.2	152.4	350.0	527.6
27.5°	68.0	75.0	110.2	241.5	385.7
30°	49.2	55.1	80.9	165.9	274.9
32.5°	35.8	41.0	60.4	114.9	191.7
35°	27.0	31.1	46.3	80.9	132.5
37.5°	22.3	24.6	38.1	58.6	93.8
40°	18.8	21.1	32.8	43.4	68.6
42.5°	16.4	19.3	27.0	32.2	51.6
45°	15.2	17.6	20.5	24.6	37.5
47.5°	15.2	14.7	15.8	18.8	26.4
50°	14.7	12.3	12.3	14.7	18.2
52.5°	12.3	10.0	10.0	10.6	12.3
55°	9.4	8.2	7.6	8.2	8.8
57.5°	7.0	7.0	6.4	5.9	6.4
60°	5.3	5.3	4.7	4.7	4.7
62.5°	4.1	4.1	4.1	3.5	4.1
65°	3.5	3.5	3.5	2.9	3.5
67.5°	2.9	2.9	2.3	2.9	2.9
70°	2.3	2.3	2.3	2.3	2.3
72.5°	1.8	1.8	1.8	1.8	1.8
75°	1.8	1.8	1.8	1.8	1.8
77.5°	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2
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)