

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: P1178284

Luminaire Tested: LDA2B058050R2050D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178284
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: LDA2B058050R2050D010 2LBD1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

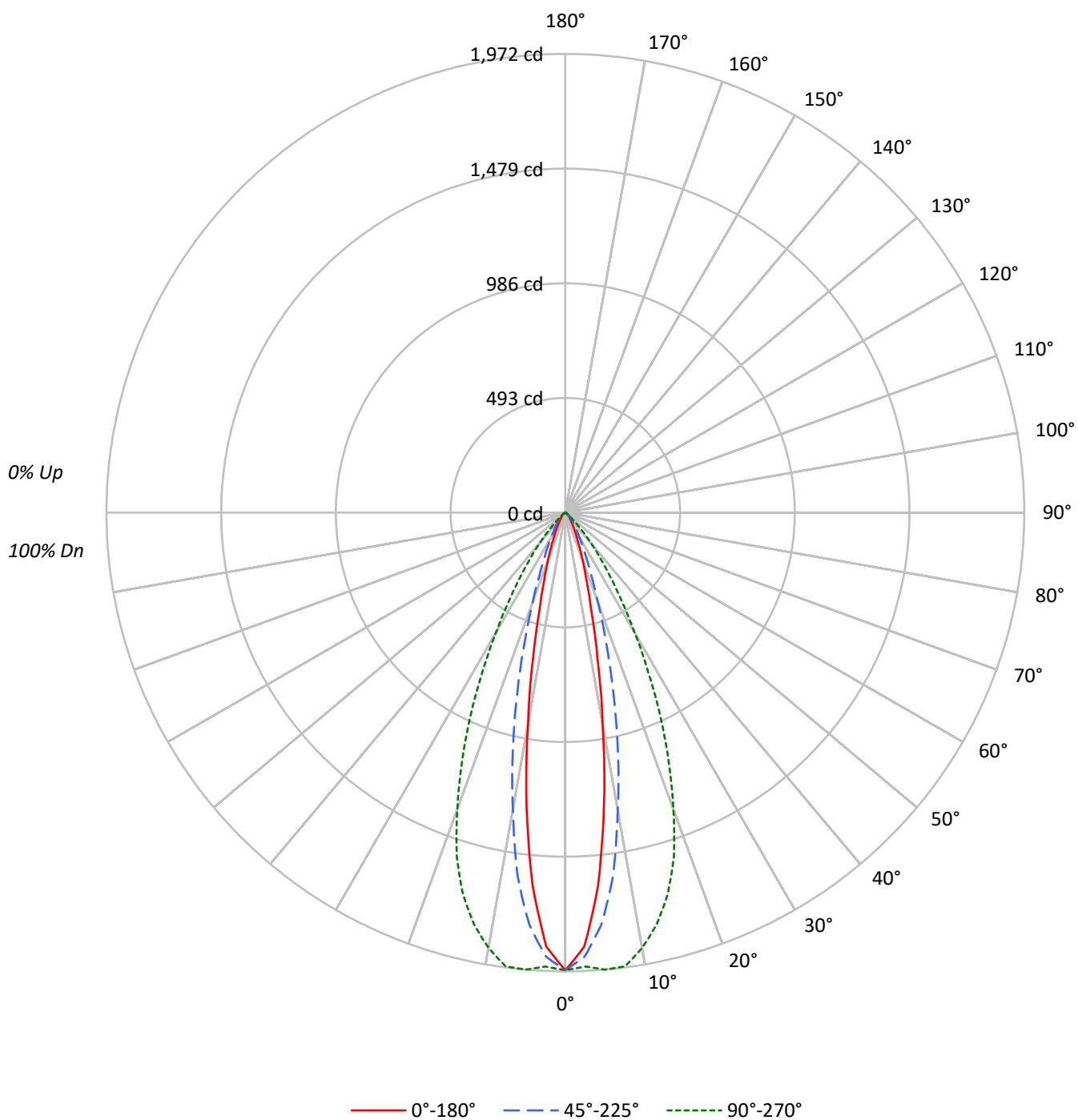
Lumens per Lamp: N/A
Luminaire Lumens: 707.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1178284

CATALOG NUMBER: LDA2B058050R2050D010 2LBD1MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1178284

CATALOG NUMBER: LDA2B058050R2050D010 2LBD1MMS

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°	970344	970344	970344
5°	797792	880251	976477
10°	463099	650463	952048
15°	215747	405088	867587
20°	113668	213580	713088
25°	62929	115623	525965
30°	36916	67736	340159
35°	23730	45472	201524
40°	18484	30656	111998
45°	16048	18280	49817
50°	14506	12588	18267
55°	9892	9204	8429
60°	7302	6512	6512
65°	5720	4786	5720
70°	4760	4760	4760
75°	4766	4766	4766
80°	4546	4546	4546
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 49817 cd/sqm

TEST NUMBER: P1178284

CATALOG NUMBER: LDA2B058050R2050D010 2LBD1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.6	22.2
10°-20°	256.4	36.3
20°-30°	171.0	24.2
30°-40°	77.1	10.9
40°-50°	28.2	4.0
50°-60°	9.9	1.4
60°-70°	4.6	0.7
70°-80°	2.4	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°	584.1	82.6
0°-40°	661.2	93.5
0°-60°	699.3	98.9
0°-90°	707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1967	1967	1967	1967	1967	
5°	1611	1661	1777	1907	1972	132
15°	422	496	793	1340	1699	126
25°	116	134	212	579	966	56
35°	39	44	76	163	335	26
45°	23	23	26	41	71	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	

TEST NUMBER: P1178284

CATALOG NUMBER: LDA2B058050R2050D010 2LBD1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1966.8	1966.8	1966.8	1966.8	1966.8
2.5°	1867.6	1887.3	1910.2	1934.0	1952.9
5°	1610.9	1660.9	1777.4	1907.0	1971.7
7.5°	1273.8	1347.6	1574.0	1829.9	1966.8
10°	924.4	1018.7	1298.4	1696.2	1900.4
12.5°	635.7	724.2	1041.6	1527.2	1812.6
15°	422.4	496.2	793.1	1340.2	1698.6
17.5°	297.7	347.8	576.6	1136.0	1551.8
20°	216.5	250.2	406.8	935.8	1358.2
22.5°	157.5	182.9	289.5	748.0	1162.2
25°	115.6	134.5	212.4	579.1	966.2
27.5°	86.1	100.9	159.1	439.6	770.2
30°	64.8	77.1	118.9	324.0	597.1
32.5°	50.0	58.2	91.0	231.3	451.9
35°	39.4	44.3	75.5	163.2	334.6
37.5°	32.8	36.1	62.3	114.0	245.2
40°	28.7	31.2	47.6	81.2	173.9
42.5°	25.4	27.1	34.4	58.2	113.2
45°	23.0	23.0	26.2	41.0	71.4
47.5°	21.3	18.9	20.5	28.7	41.8
50°	18.9	15.6	16.4	19.7	23.8
52.5°	14.8	13.1	13.1	13.1	13.9
55°	11.5	10.7	10.7	9.0	9.8
57.5°	9.0	9.0	8.2	7.4	8.2
60°	7.4	7.4	6.6	5.7	6.6
62.5°	5.7	5.7	4.9	4.9	5.7
65°	4.9	4.9	4.1	4.1	4.9
67.5°	4.1	4.1	4.1	3.3	4.1
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°	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6
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)