

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: P1178206

Luminaire Tested: LDA2B058035R2050D010 2LBD1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178206
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: LDA2B058035R2050D010 2LBD1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

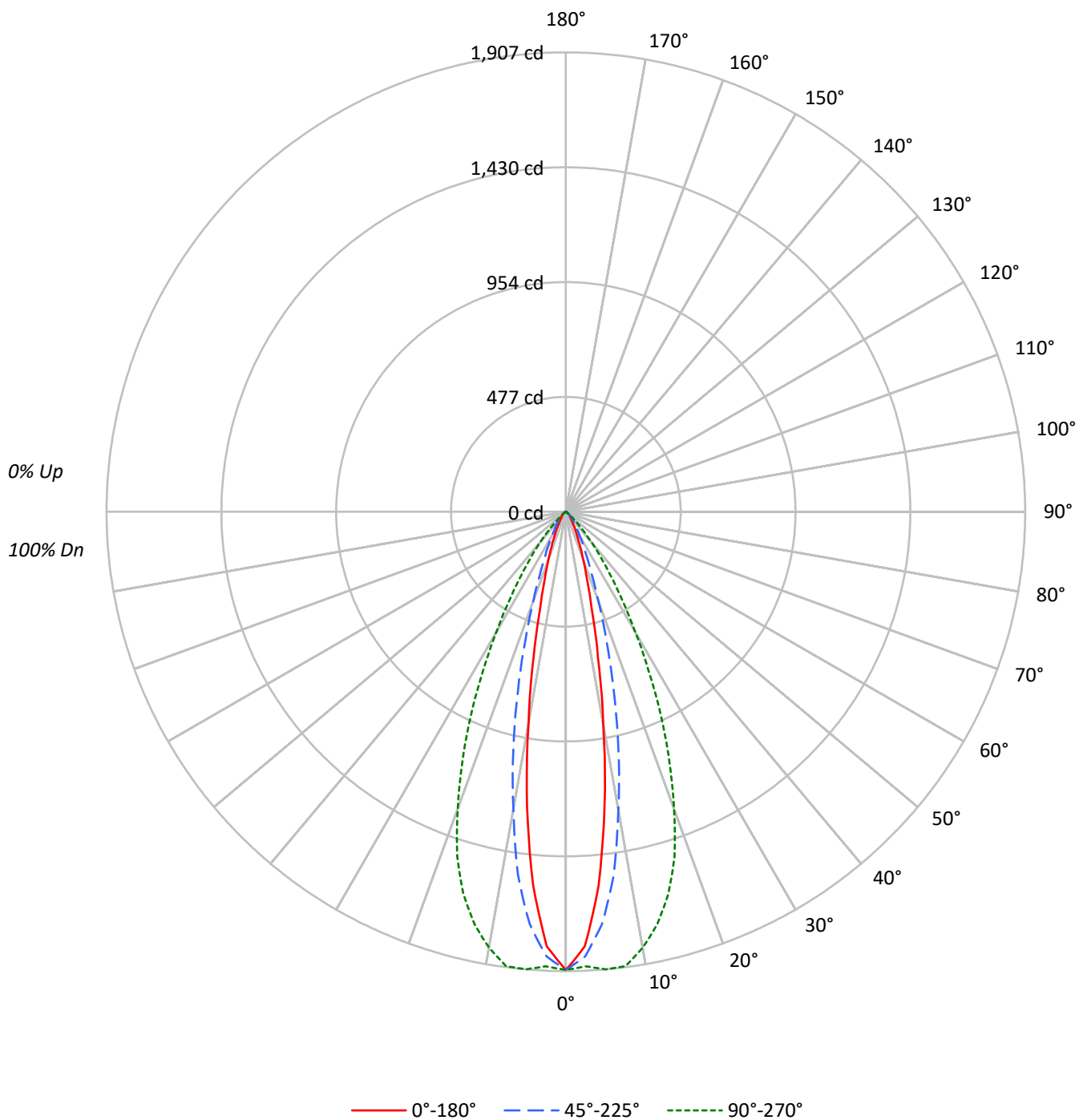
Lumens per Lamp: N/A
Luminaire Lumens: 683.7 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1178206

CATALOG NUMBER: LDA2B058035R2050D010 2LBD1MB

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83	80	78	76
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77	73	71	70
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74	70	68	67
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	938325	938325	938325
5°	771445	851180	944286
10°	447819	628971	920638
15°	208648	391757	838984
20°	109940	206545	689567
25°	60860	111812	508600
30°	35719	65514	328936
35°	22947	43967	194899
40°	17904	29626	108263
45°	15489	17722	48143
50°	13969	12204	17653
55°	9548	8860	8171
60°	7006	6216	6216
65°	5603	4670	5603
70°	4616	4616	4616
75°	4575	4575	4575
80°	4546	4546	4546
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 48143 cd/sqm

TEST NUMBER: P1178206

CATALOG NUMBER: LDA2B058035R2050D010 2LBD1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	22.1
10°-20°	248.0	36.3
20°-30°	165.4	24.2
30°-40°	74.6	10.9
40°-50°	27.3	4.0
50°-60°	9.5	1.4
60°-70°	4.5	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°	564.8	82.6
0°-40°	639.4	93.5
0°-60°	676.2	98.9
0°-90°	683.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	683.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1558	1606	1719	1844	1907	127
15°	408	480	767	1296	1643	122
25°	112	130	205	560	934	54
35°	38	43	73	158	324	25
45°	22	22	25	40	69	17
55°	11	10	10	9	10	10
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	

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CATALOG NUMBER: LDA2B058035R2050D010 2LBD1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1901.9	1901.9	1901.9	1901.9	1901.9
2.5°	1806.0	1825.0	1847.2	1870.2	1888.5
5°	1557.7	1606.1	1718.7	1844.0	1906.7
7.5°	1231.7	1303.1	1522.0	1769.5	1901.9
10°	893.9	985.1	1255.5	1640.2	1837.7
12.5°	614.7	700.3	1007.3	1476.8	1752.8
15°	408.5	479.8	767.0	1296.0	1642.6
17.5°	287.9	336.3	557.6	1098.5	1500.6
20°	209.4	241.9	393.4	905.0	1313.4
22.5°	152.3	176.9	280.0	723.3	1123.9
25°	111.8	130.1	205.4	560.0	934.3
27.5°	83.3	97.6	153.9	425.1	744.8
30°	62.7	74.6	115.0	313.3	577.4
32.5°	48.4	56.3	88.0	223.7	437.0
35°	38.1	42.8	73.0	157.8	323.6
37.5°	31.7	34.9	60.3	110.2	237.1
40°	27.8	30.1	46.0	78.5	168.1
42.5°	24.6	26.2	33.3	56.3	109.5
45°	22.2	22.2	25.4	39.7	69.0
47.5°	20.6	18.2	19.8	27.8	40.4
50°	18.2	15.1	15.9	19.0	23.0
52.5°	14.3	12.7	12.7	12.7	13.5
55°	11.1	10.3	10.3	8.7	9.5
57.5°	8.7	8.7	7.9	7.1	7.9
60°	7.1	7.1	6.3	5.6	6.3
62.5°	5.6	5.6	4.8	4.8	5.6
65°	4.8	4.8	4.0	4.0	4.8
67.5°	4.0	4.0	4.0	3.2	4.0
70°	3.2	3.2	3.2	3.2	3.2
72.5°	2.4	2.4	3.2	2.4	2.4
75°	2.4	2.4	2.4	2.4	2.4
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)