

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: P1178113

Luminaire Tested: LDA2B058027R2040D010 2LBD1B

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178113
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: LDA2B058027R2040D010 2LBD1B
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

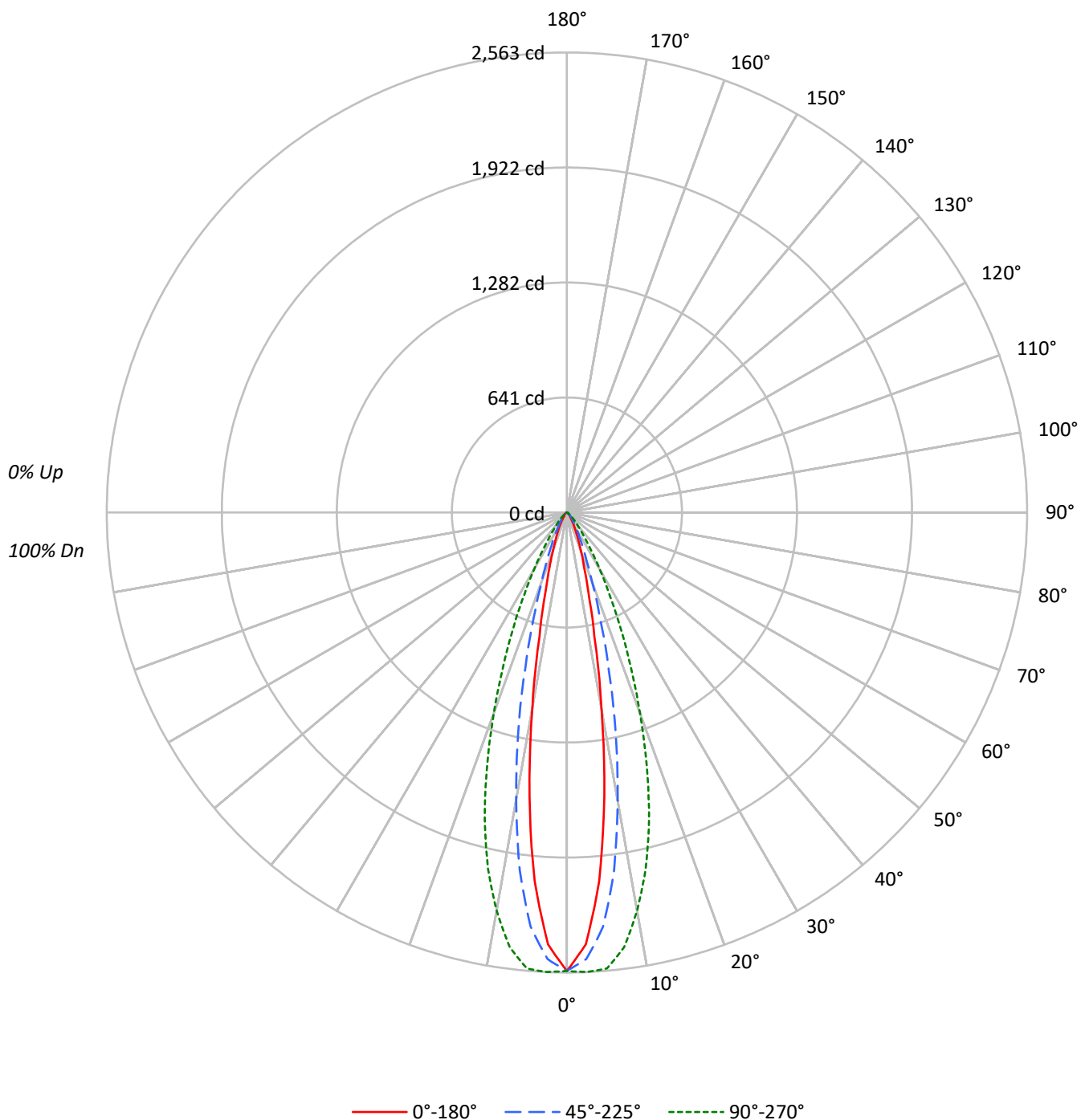
Lumens per Lamp: N/A
Luminaire Lumens: 719.9 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1178113

CATALOG NUMBER: LDA2B058027R2040D010 2LBD1B

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	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°	1260046	1260046	1260046
5°	1021347	1147139	1263324
10°	555328	814481	1128140
15°	234850	457033	902983
20°	119916	214945	624359
25°	66412	109962	380565
30°	37143	61070	207536
35°	21502	36980	105701
40°	16037	28016	58543
45°	14094	18978	34677
50°	14890	12511	18498
55°	10666	8688	10064
60°	6907	6118	6118
65°	5487	5487	5487
70°	4472	4472	4472
75°	4384	4384	4384
80°	4546	4546	4546
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 34677 cd/sqm

TEST NUMBER: P1178113

CATALOG NUMBER: LDA2B058027R2040D010 2LBD1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	27.6
10°-20°	281.4	39.1
20°-30°	145.0	20.1
30°-40°	53.3	7.4
40°-50°	23.4	3.3
50°-60°	10.3	1.4
60°-70°	4.5	0.6
70°-80°	2.3	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°	625.4	86.9
0°-40°	678.7	94.3
0°-60°	712.4	99.0
0°-90°	719.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	719.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2554	2554	2554	2554	2554	
5°	2062	2132	2316	2480	2551	166
15°	460	534	895	1493	1768	141
25°	122	137	202	464	699	59
35°	36	41	61	107	176	24
45°	20	23	27	33	50	16
55°	12	11	10	11	12	11
65°	5	5	5	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: LDA2B058027R2040D010 2LBD1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2554.0	2554.0	2554.0	2554.0	2554.0
2.5°	2408.0	2436.7	2490.3	2541.6	2562.6
5°	2062.3	2132.2	2316.3	2480.2	2550.9
7.5°	1597.0	1712.0	2010.3	2317.1	2442.9
10°	1108.5	1225.0	1625.8	2067.0	2251.9
12.5°	706.9	820.3	1252.9	1789.7	2029.7
15°	459.8	534.4	894.8	1493.0	1767.9
17.5°	319.3	372.1	609.0	1178.4	1478.2
20°	228.4	265.7	409.4	898.7	1189.2
22.5°	165.5	191.1	284.3	656.4	924.4
25°	122.0	136.7	202.0	463.7	699.1
27.5°	90.1	99.4	146.0	320.0	511.1
30°	65.2	73.0	107.2	219.8	364.3
32.5°	47.4	54.4	80.0	152.2	254.0
35°	35.7	41.2	61.4	107.2	175.5
37.5°	29.5	32.6	50.5	77.7	124.3
40°	24.9	28.0	43.5	57.5	90.9
42.5°	21.7	25.6	35.7	42.7	68.4
45°	20.2	23.3	27.2	32.6	49.7
47.5°	20.2	19.4	21.0	24.9	35.0
50°	19.4	16.3	16.3	19.4	24.1
52.5°	16.3	13.2	13.2	14.0	16.3
55°	12.4	10.9	10.1	10.9	11.7
57.5°	9.3	9.3	8.5	7.8	8.5
60°	7.0	7.0	6.2	6.2	6.2
62.5°	5.4	5.4	5.4	4.7	5.4
65°	4.7	4.7	4.7	3.9	4.7
67.5°	3.9	3.9	3.1	3.9	3.9
70°	3.1	3.1	3.1	3.1	3.1
72.5°	2.3	2.3	2.3	2.3	2.3
75°	2.3	2.3	2.3	2.3	2.3
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)