

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: P1179978

Luminaire Tested: LDA2B209040R2040D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179978
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: LDA2B209040R2040D010 2LBD1MMS
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

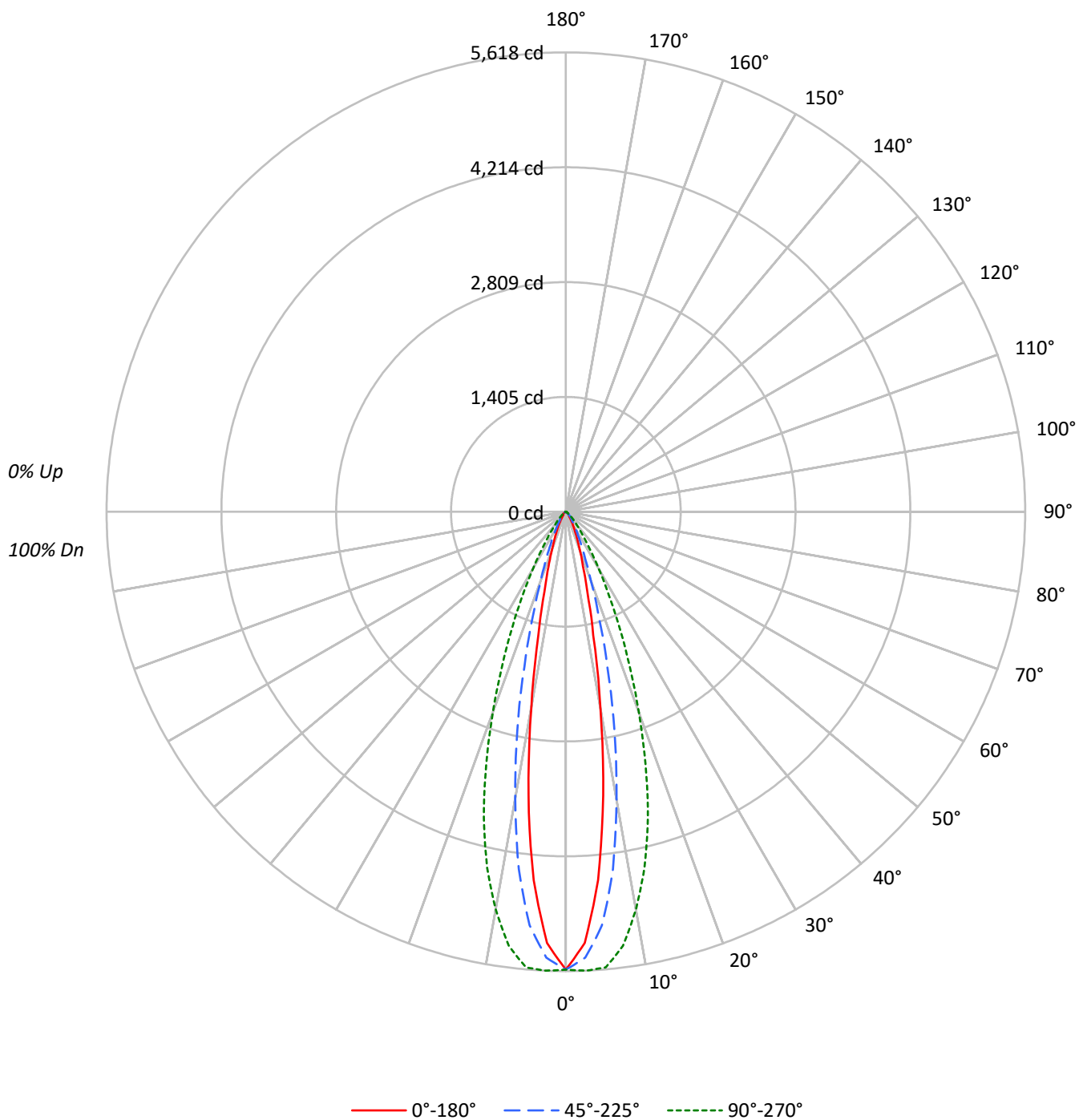
Lumens per Lamp: N/A
Luminaire Lumens: 1578.0 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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: P1179978

CATALOG NUMBER: LDA2B209040R2040D010 2LBD1MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1179978

CATALOG NUMBER: LDA2B209040R2040D010 2LBD1MMS

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2762283	2762283	2762283
5°	2239009	2514762	2769467
10°	1217314	1785467	2473052
15°	514903	1001969	1979524
20°	262827	471157	1368739
25°	145509	240990	834239
30°	81465	133876	454951
35°	47159	81007	231759
40°	35100	61441	128292
45°	30909	41584	76051
50°	32697	27478	40526
55°	23396	19009	21934
60°	15097	13419	13419
65°	11907	11907	11907
70°	9809	9809	9809
75°	9722	9722	9722
80°	9660	9660	9660
85°	9623	9623	9623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 76051 cd/sqm

TEST NUMBER: P1179978

CATALOG NUMBER: LDA2B209040R2040D010 2LBD1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.3	27.6
10°-20°	616.9	39.1
20°-30°	317.8	20.1
30°-40°	116.9	7.4
40°-50°	51.4	3.3
50°-60°	22.5	1.4
60°-70°	9.8	0.6
70°-80°	4.9	0.3
80°-90°	1.4	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°	1371.0	86.9
0°-40°	1487.9	94.3
0°-60°	1561.8	99.0
0°-90°	1578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5599	5599	5599	5599	5599	
5°	4521	4674	5078	5437	5592	364
15°	1008	1172	1962	3273	3876	308
25°	267	300	443	1017	1532	128
35°	78	90	134	235	385	53
45°	44	51	60	72	109	36
55°	27	24	22	24	26	25
65°	10	10	10	8	10	10
75°	5	5	5	5	5	5
85°	2	2	2	2	2	1
90°	0	0	0	0	0	

TEST NUMBER: P1179978

CATALOG NUMBER: LDA2B209040R2040D010 2LBD1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5598.9	5598.9	5598.9	5598.9	5598.9
2.5°	5278.8	5341.8	5459.3	5571.6	5617.6
5°	4521.0	4674.3	5077.8	5437.1	5592.1
7.5°	3501.0	3753.0	4406.9	5079.5	5355.4
10°	2429.9	2685.4	3564.0	4531.2	4936.5
12.5°	1549.6	1798.2	2746.7	3923.3	4449.5
15°	1008.1	1171.5	1961.7	3272.8	3875.6
17.5°	699.9	815.7	1335.0	2583.2	3240.5
20°	500.6	582.4	897.4	1970.2	2607.0
22.5°	362.7	418.9	623.2	1438.9	2026.4
25°	267.3	299.7	442.7	1016.6	1532.5
27.5°	197.5	218.0	320.1	701.6	1120.5
30°	143.0	160.1	235.0	481.9	798.6
32.5°	103.9	119.2	175.4	333.8	556.8
35°	78.3	90.2	134.5	235.0	384.8
37.5°	64.7	71.5	110.7	170.3	272.5
40°	54.5	61.3	95.4	126.0	199.2
42.5°	47.7	56.2	78.3	93.7	149.8
45°	44.3	51.1	59.6	71.5	109.0
47.5°	44.3	42.6	46.0	54.5	76.6
50°	42.6	35.8	35.8	42.6	52.8
52.5°	35.8	28.9	28.9	30.7	35.8
55°	27.2	23.8	22.1	23.8	25.5
57.5°	20.4	20.4	18.7	17.0	18.7
60°	15.3	15.3	13.6	13.6	13.6
62.5°	11.9	11.9	11.9	10.2	11.9
65°	10.2	10.2	10.2	8.5	10.2
67.5°	8.5	8.5	6.8	8.5	8.5
70°	6.8	6.8	6.8	6.8	6.8
72.5°	5.1	5.1	5.1	5.1	5.1
75°	5.1	5.1	5.1	5.1	5.1
77.5°	3.4	3.4	3.4	3.4	3.4
80°	3.4	3.4	3.4	3.4	3.4
82.5°	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	1.7
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)