

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: P1180106

Luminaire Tested: LDA2B209730R2050D010 2LBD1LI

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1180106
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: LDA2B209730R2050D010 2LBD1LI
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

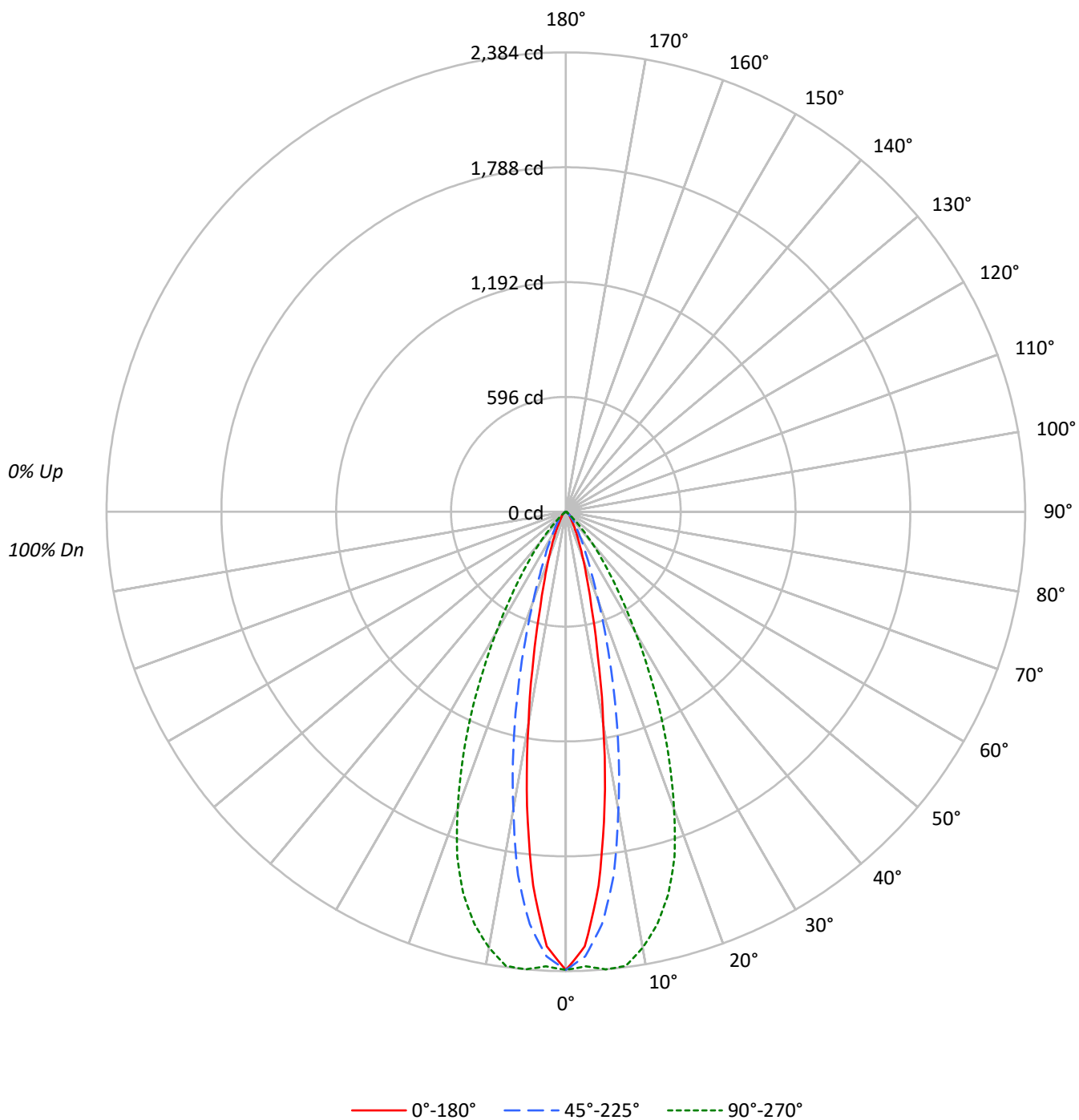
Lumens per Lamp: N/A
Luminaire Lumens: 854.7 lumens
Efficiency: N/A
Efficacy: 41.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1180106

CATALOG NUMBER: LDA2B209730R2050D010 2LBD1LI

Luminous Intensity Polar Plot



TEST NUMBER: P1180106

CATALOG NUMBER: LDA2B209730R2050D010 2LBD1LI

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1173017	1173017	1173017
5°	964393	1064086	1180469
10°	559787	786327	1150885
15°	260797	489722	1048806
20°	137451	258207	862038
25°	76102	139793	635818
30°	44606	81921	411199
35°	28669	54928	243624
40°	22348	37032	135377
45°	19397	22118	60213
50°	17500	15197	22105
55°	11956	11096	10236
60°	8782	7795	7795
65°	6888	5837	6888
70°	5770	5770	5770
75°	5719	5719	5719
80°	5682	5682	5682
85°	5661	5661	5661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 60213 cd/sqm

TEST NUMBER: P1180106

CATALOG NUMBER: LDA2B209730R2050D010 2LBD1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.3	22.1
10°-20°	310.0	36.3
20°-30°	206.8	24.2
30°-40°	93.2	10.9
40°-50°	34.1	4.0
50°-60°	11.9	1.4
60°-70°	5.6	0.7
70°-80°	3.0	0.3
80°-90°	0.8	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°	706.1	82.6
0°-40°	799.3	93.5
0°-60°	845.3	98.9
0°-90°	854.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	854.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2378	2378	2378	2378	2378	
5°	1947	2008	2149	2305	2384	159
15°	511	600	959	1620	2053	153
25°	140	163	257	700	1168	68
35°	48	54	91	197	404	32
45°	28	28	32	50	86	22
55°	14	13	13	11	12	13
65°	6	6	5	5	6	6
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1180106

CATALOG NUMBER: LDA2B209730R2050D010 2LBD1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2377.6	2377.6	2377.6	2377.6	2377.6
2.5°	2257.7	2281.5	2309.2	2338.0	2360.8
5°	1947.3	2007.8	2148.6	2305.2	2383.6
7.5°	1539.8	1629.0	1902.7	2212.0	2377.6
10°	1117.4	1231.4	1569.6	2050.4	2297.3
12.5°	768.4	875.5	1259.2	1846.2	2191.2
15°	510.6	599.9	958.8	1620.1	2053.4
17.5°	359.9	420.4	697.0	1373.2	1875.9
20°	261.8	302.4	491.8	1131.3	1641.9
22.5°	190.4	221.1	350.0	904.3	1405.0
25°	139.8	162.6	256.8	700.0	1168.0
27.5°	104.1	122.0	192.4	531.4	931.0
30°	78.3	93.2	143.8	391.6	721.8
32.5°	60.5	70.4	110.1	279.6	546.3
35°	47.6	53.5	91.2	197.3	404.5
37.5°	39.7	43.6	75.4	137.8	296.5
40°	34.7	37.7	57.5	98.2	210.2
42.5°	30.7	32.7	41.6	70.4	136.8
45°	27.8	27.8	31.7	49.6	86.3
47.5°	25.8	22.8	24.8	34.7	50.6
50°	22.8	18.8	19.8	23.8	28.8
52.5°	17.8	15.9	15.9	15.9	16.9
55°	13.9	12.9	12.9	10.9	11.9
57.5°	10.9	10.9	9.9	8.9	9.9
60°	8.9	8.9	7.9	6.9	7.9
62.5°	6.9	6.9	5.9	5.9	6.9
65°	5.9	5.9	5.0	5.0	5.9
67.5°	5.0	5.0	5.0	4.0	5.0
70°	4.0	4.0	4.0	4.0	4.0
72.5°	3.0	3.0	4.0	3.0	3.0
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
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)