

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: P1179986

Luminaire Tested: LDA2B209040R2050D010 2LBD1B

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179986
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: LDA2B209040R2050D010 2LBD1B
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

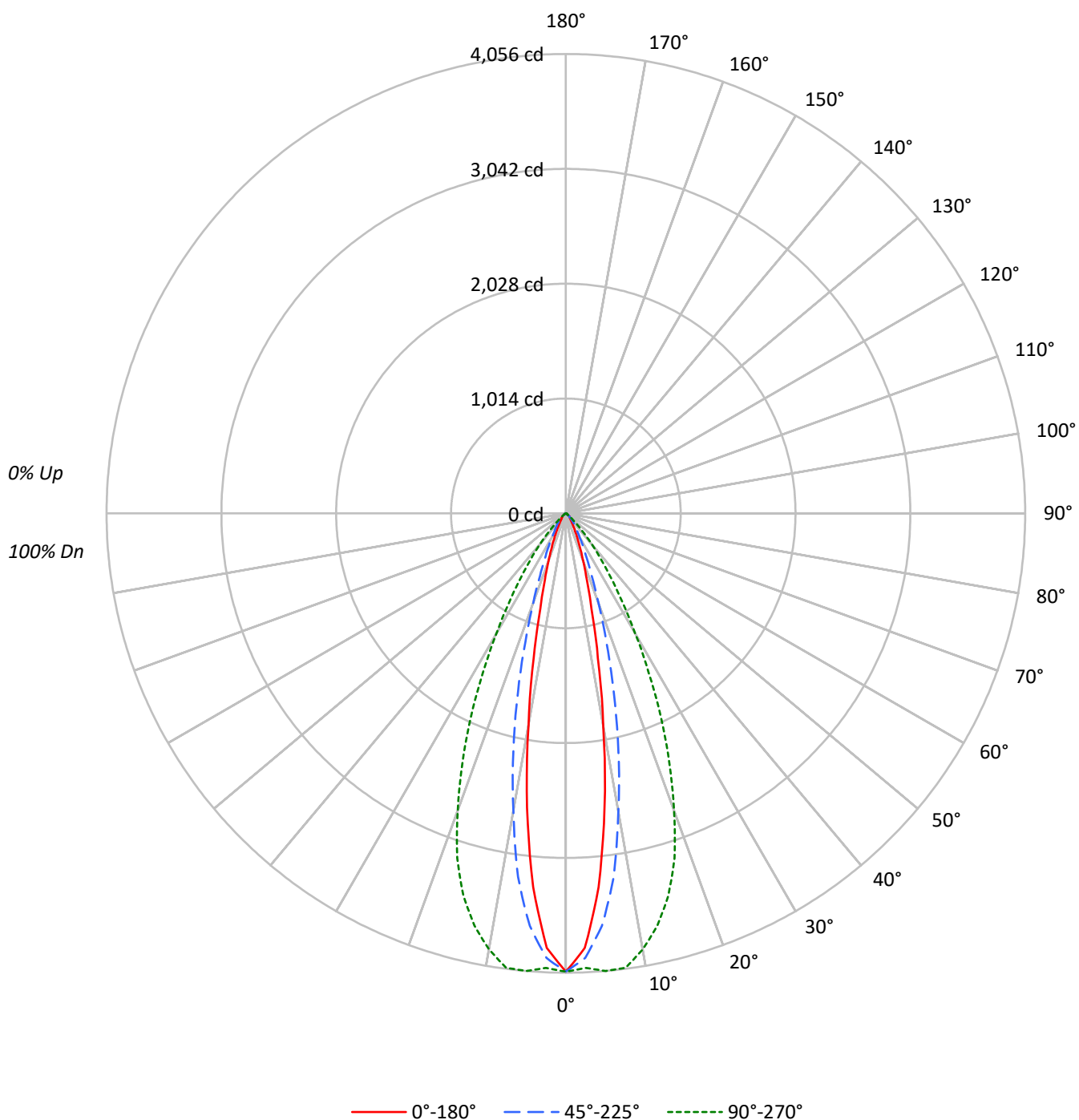
Lumens per Lamp: N/A
Luminaire Lumens: 1454.3 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

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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°	1995994	1995994	1995994
5°	1640999	1810571	2008620
10°	952549	1337948	1958302
15°	443804	833263	1784615
20°	233846	439341	1466814
25°	129504	237887	1081870
30°	75939	139345	699687
35°	48785	93474	414552
40°	37998	63051	230372
45°	32932	37677	102425
50°	29780	25866	37532
55°	20300	18837	17375
60°	14998	13321	13321
65°	11791	9806	11791
70°	9665	9665	9665
75°	9722	9722	9722
80°	9660	9660	9660
85°	9623	9623	9623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 102425 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.1	22.2
10°-20°	527.4	36.3
20°-30°	351.8	24.2
30°-40°	158.6	10.9
40°-50°	58.1	4.0
50°-60°	20.3	1.4
60°-70°	9.5	0.7
70°-80°	5.0	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°	1201.4	82.6
0°-40°	1360.0	93.5
0°-60°	1438.4	98.9
0°-90°	1454.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1454.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4046	4046	4046	4046	4046	
5°	3314	3416	3656	3922	4056	271
15°	869	1021	1631	2757	3494	260
25°	238	277	437	1191	1987	115
35°	81	91	155	336	688	54
45°	47	47	54	84	147	37
55°	24	22	22	19	20	22
65°	10	10	8	8	10	10
75°	5	5	5	5	5	5
85°	2	2	2	2	2	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4045.7	4045.7	4045.7	4045.7	4045.7
2.5°	3841.5	3882.0	3929.2	3978.2	4017.0
5°	3313.5	3416.4	3655.9	3922.5	4055.8
7.5°	2620.1	2771.9	3237.5	3763.9	4045.7
10°	1901.4	2095.4	2670.7	3488.9	3909.0
12.5°	1307.5	1489.7	2142.6	3141.4	3728.5
15°	868.9	1020.7	1631.4	2756.7	3494.0
17.5°	612.4	715.3	1186.0	2336.6	3192.0
20°	445.4	514.6	836.8	1925.0	2793.8
22.5°	323.9	376.2	595.5	1538.6	2390.6
25°	237.9	276.7	437.0	1191.1	1987.4
27.5°	177.1	207.5	327.3	904.3	1584.2
30°	133.3	158.6	244.6	666.4	1228.2
32.5°	102.9	119.8	187.3	475.8	929.6
35°	81.0	91.1	155.2	335.7	688.3
37.5°	67.5	74.2	128.2	234.5	504.4
40°	59.0	64.1	97.9	167.0	357.7
42.5°	52.3	55.7	70.9	119.8	232.8
45°	47.2	47.2	54.0	84.4	146.8
47.5°	43.9	38.8	42.2	59.0	86.0
50°	38.8	32.1	33.7	40.5	48.9
52.5°	30.4	27.0	27.0	27.0	28.7
55°	23.6	21.9	21.9	18.6	20.2
57.5°	18.6	18.6	16.9	15.2	16.9
60°	15.2	15.2	13.5	11.8	13.5
62.5°	11.8	11.8	10.1	10.1	11.8
65°	10.1	10.1	8.4	8.4	10.1
67.5°	8.4	8.4	8.4	6.7	8.4
70°	6.7	6.7	6.7	6.7	6.7
72.5°	5.1	5.1	6.7	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)