

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: P1179998

Luminaire Tested: LDA2B209040R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179998
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 2LBDC1MW
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

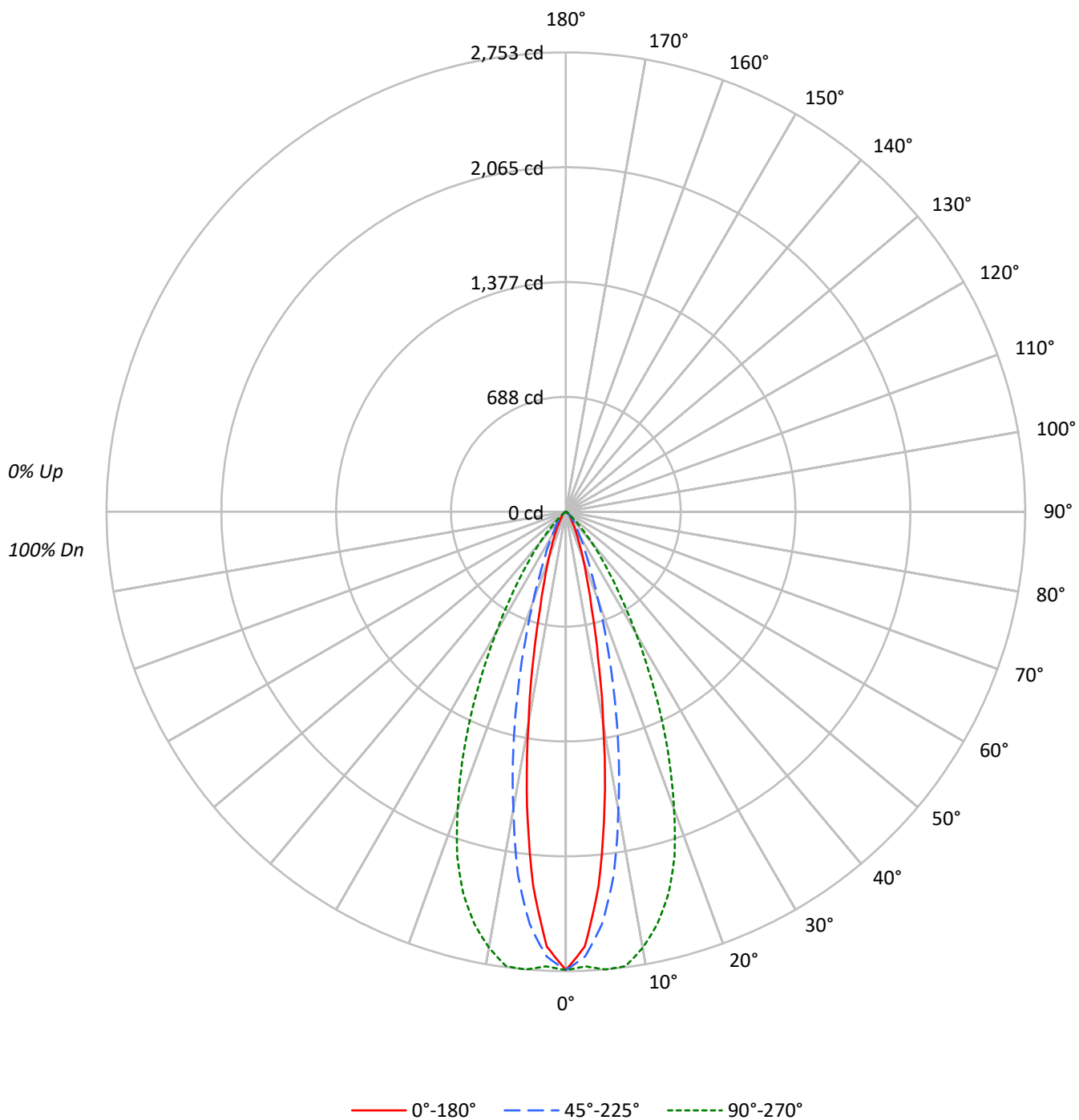
Lumens per Lamp: N/A
Luminaire Lumens: 987.2 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	1354969	1354969	1354969
5°	1113958	1229102	1363512
10°	646605	908263	1329381
15°	301250	565673	1211485
20°	158767	298267	995762
25°	87915	161459	734402
30°	51557	94625	475003
35°	33126	63481	281447
40°	25826	42764	156372
45°	22397	25537	69493
50°	20186	17577	25482
55°	13762	12816	11784
60°	10163	9078	9078
65°	8055	6654	8055
70°	6635	6635	6635
75°	6481	6481	6481
80°	6535	6535	6535
85°	6227	6227	6227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 69493 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	22.2
10°-20°	358.1	36.3
20°-30°	238.8	24.2
30°-40°	107.7	10.9
40°-50°	39.4	4.0
50°-60°	13.8	1.4
60°-70°	6.5	0.7
70°-80°	3.4	0.3
80°-90°	0.9	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°	815.6	82.6
0°-40°	923.2	93.5
0°-60°	976.4	98.9
0°-90°	987.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	987.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2746	2746	2746	2746	2746	
5°	2249	2319	2482	2663	2753	184
15°	590	693	1108	1871	2372	177
25°	162	188	297	809	1349	78
35°	55	62	105	228	467	36
45°	32	32	37	57	100	25
55°	16	15	15	13	14	15
65°	7	7	6	6	7	7
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2746.4	2746.4	2746.4	2746.4	2746.4
2.5°	2607.8	2635.3	2667.3	2700.6	2726.9
5°	2249.3	2319.2	2481.8	2662.8	2753.2
7.5°	1778.6	1881.7	2197.8	2555.1	2746.4
10°	1290.7	1422.4	1813.0	2368.4	2653.6
12.5°	887.6	1011.3	1454.5	2132.5	2531.1
15°	589.8	692.9	1107.5	1871.4	2371.9
17.5°	415.7	485.6	805.1	1586.2	2166.9
20°	302.4	349.3	568.1	1306.8	1896.6
22.5°	219.9	255.4	404.3	1044.5	1622.9
25°	161.5	187.8	296.6	808.6	1349.1
27.5°	120.3	140.9	222.2	613.9	1075.4
30°	90.5	107.7	166.1	452.4	833.8
32.5°	69.9	81.3	127.1	323.0	631.0
35°	55.0	61.8	105.4	227.9	467.3
37.5°	45.8	50.4	87.0	159.2	342.4
40°	40.1	43.5	66.4	113.4	242.8
42.5°	35.5	37.8	48.1	81.3	158.0
45°	32.1	32.1	36.6	57.3	99.6
47.5°	29.8	26.3	28.6	40.1	58.4
50°	26.3	21.8	22.9	27.5	33.2
52.5°	20.6	18.3	18.3	18.3	19.5
55°	16.0	14.9	14.9	12.6	13.7
57.5°	12.6	12.6	11.5	10.3	11.5
60°	10.3	10.3	9.2	8.0	9.2
62.5°	8.0	8.0	6.9	6.9	8.0
65°	6.9	6.9	5.7	5.7	6.9
67.5°	5.7	5.7	5.7	4.6	5.7
70°	4.6	4.6	4.6	4.6	4.6
72.5°	3.4	3.4	4.6	3.4	3.4
75°	3.4	3.4	3.4	3.4	3.4
77.5°	2.3	2.3	2.3	2.3	2.3
80°	2.3	2.3	2.3	2.3	2.3
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1
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)