

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: P1178328

Luminaire Tested: LDA2B059024R2050D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178328
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: LDA2B059024R2050D010 2LBDC1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

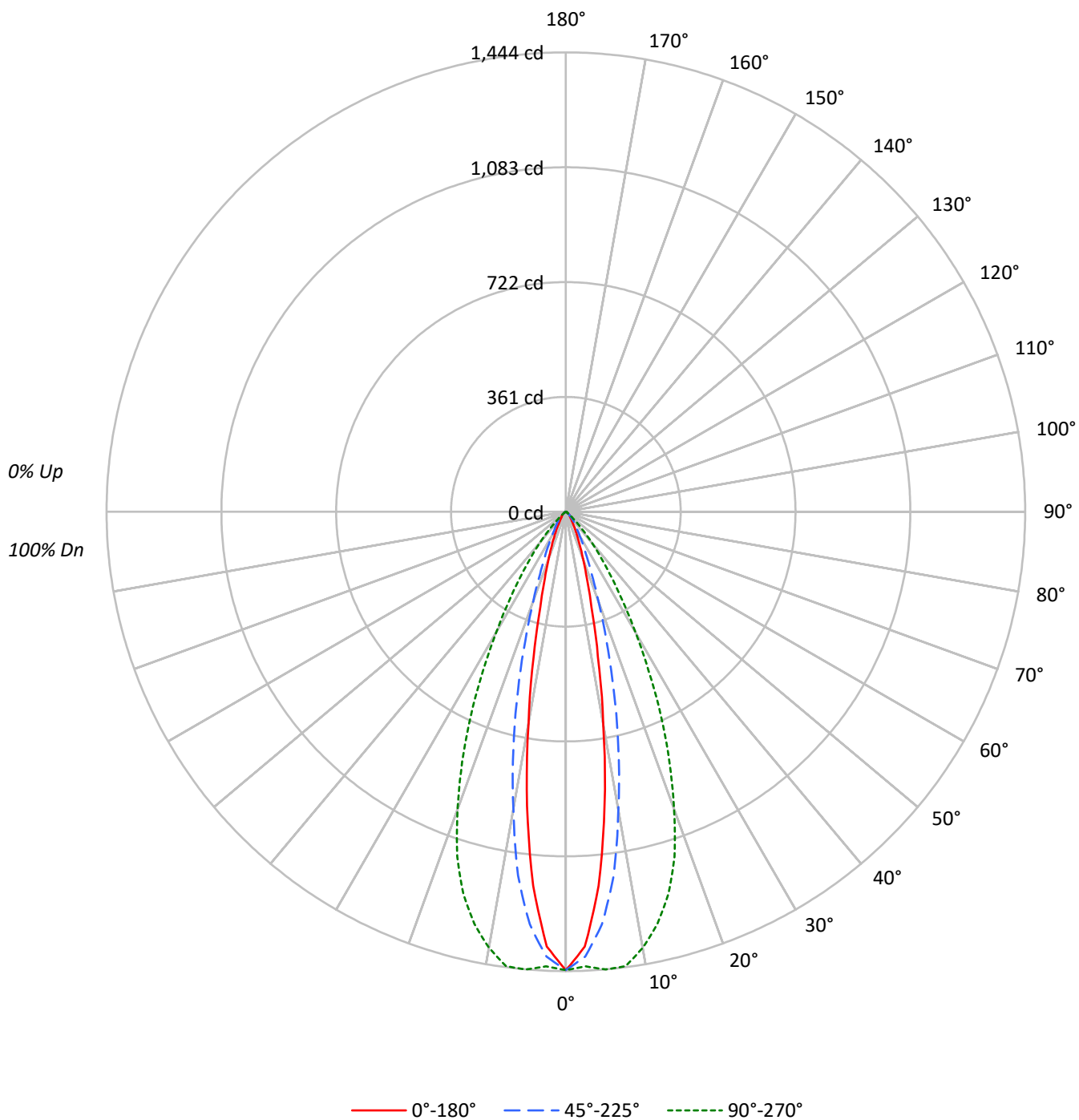
Lumens per Lamp: N/A
Luminaire Lumens: 517.8 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	710786	710786	710786
5°	584341	644761	715284
10°	339209	476425	697354
15°	158031	296755	635495
20°	83269	156457	522347
25°	46108	84703	385247
30°	27060	49620	249180
35°	17346	33306	147620
40°	13525	22413	82050
45°	11722	13396	36491
50°	10592	9210	13355
55°	7225	6709	6193
60°	5328	4736	4736
65°	4203	3502	4203
70°	3462	3462	3462
75°	3431	3431	3431
80°	3409	3409	3409
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 36491 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	22.2
10°-20°	187.8	36.3
20°-30°	125.3	24.2
30°-40°	56.5	10.9
40°-50°	20.7	4.0
50°-60°	7.2	1.4
60°-70°	3.4	0.7
70°-80°	1.8	0.3
80°-90°	0.5	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°	427.8	82.6
0°-40°	484.3	93.5
0°-60°	512.2	98.9
0°-90°	517.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	517.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1180	1217	1302	1397	1444	96
15°	309	364	581	982	1244	93
25°	85	98	156	424	708	41
35°	29	32	55	120	245	19
45°	17	17	19	30	52	13
55°	8	8	8	7	7	8
65°	4	4	3	3	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1440.7	1440.7	1440.7	1440.7	1440.7
2.5°	1368.0	1382.4	1399.2	1416.6	1430.5
5°	1179.9	1216.6	1301.9	1396.8	1444.3
7.5°	933.0	987.1	1152.9	1340.3	1440.7
10°	677.1	746.2	951.0	1242.4	1392.0
12.5°	465.6	530.5	763.0	1118.6	1327.7
15°	309.4	363.5	581.0	981.7	1244.2
17.5°	218.1	254.7	422.3	832.1	1136.7
20°	158.6	183.2	298.0	685.5	994.9
22.5°	115.3	134.0	212.1	547.9	851.3
25°	84.7	98.5	155.6	424.1	707.7
27.5°	63.1	73.9	116.6	322.0	564.1
30°	47.5	56.5	87.1	237.3	437.4
32.5°	36.6	42.7	66.7	169.4	331.0
35°	28.8	32.4	55.3	119.6	245.1
37.5°	24.0	26.4	45.7	83.5	179.6
40°	21.0	22.8	34.8	59.5	127.4
42.5°	18.6	19.8	25.2	42.7	82.9
45°	16.8	16.8	19.2	30.0	52.3
47.5°	15.6	13.8	15.0	21.0	30.6
50°	13.8	11.4	12.0	14.4	17.4
52.5°	10.8	9.6	9.6	9.6	10.2
55°	8.4	7.8	7.8	6.6	7.2
57.5°	6.6	6.6	6.0	5.4	6.0
60°	5.4	5.4	4.8	4.2	4.8
62.5°	4.2	4.2	3.6	3.6	4.2
65°	3.6	3.6	3.0	3.0	3.6
67.5°	3.0	3.0	3.0	2.4	3.0
70°	2.4	2.4	2.4	2.4	2.4
72.5°	1.8	1.8	2.4	1.8	1.8
75°	1.8	1.8	1.8	1.8	1.8
77.5°	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6
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)