

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: P1178323

Luminaire Tested: LDA2B059024R2050D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178323
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 2LBD1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

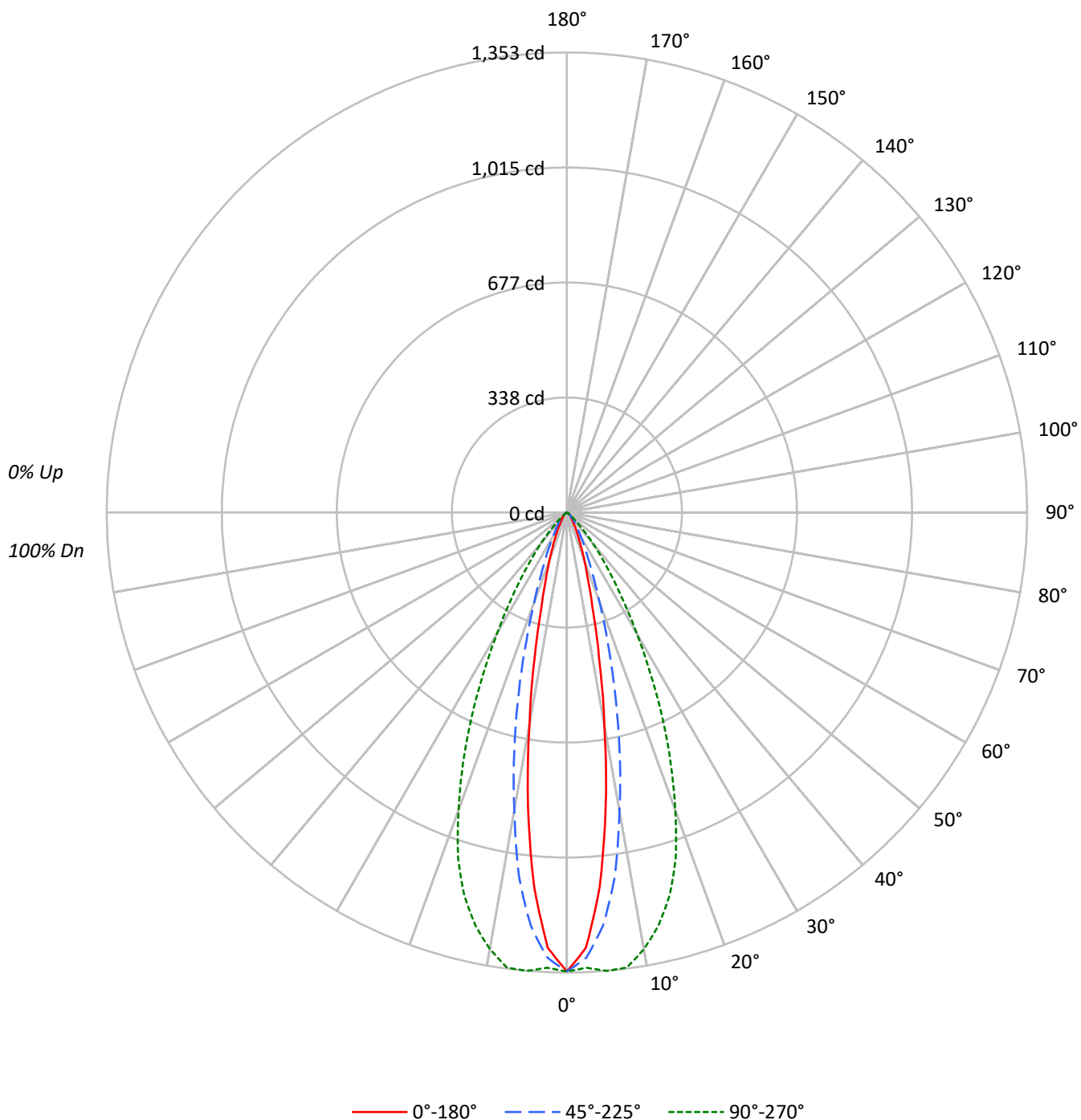
Lumens per Lamp: N/A
Luminaire Lumens: 485.2 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	665890	665890	665890
5°	547445	604052	670118
10°	317767	446367	653318
15°	148071	278010	595400
20°	78019	146587	489375
25°	43223	79368	360914
30°	25351	46486	233457
35°	16262	31198	138284
40°	12688	20996	76834
45°	11024	12559	34188
50°	9901	8673	12511
55°	6795	6279	5849
60°	5032	4440	4440
65°	3969	3269	3969
70°	3318	3318	3318
75°	3241	3241	3241
80°	3125	3125	3125
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 34188 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	22.1
10°-20°	176.0	36.3
20°-30°	117.4	24.2
30°-40°	52.9	10.9
40°-50°	19.4	4.0
50°-60°	6.8	1.4
60°-70°	3.2	0.7
70°-80°	1.7	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°	400.8	82.6
0°-40°	453.7	93.5
0°-60°	479.9	98.9
0°-90°	485.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	485.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1105	1140	1220	1309	1353	90
15°	290	340	544	920	1166	87
25°	79	92	146	397	663	38
35°	27	30	52	112	230	18
45°	16	16	18	28	49	12
55°	8	7	7	6	7	7
65°	3	3	3	3	3	3
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°	1349.7	1349.7	1349.7	1349.7	1349.7
2.5°	1281.6	1295.1	1310.9	1327.2	1340.2
5°	1105.4	1139.8	1219.7	1308.6	1353.1
7.5°	874.1	924.8	1080.1	1255.7	1349.7
10°	634.3	699.1	891.0	1164.0	1304.1
12.5°	436.2	497.0	714.8	1048.0	1243.9
15°	289.9	340.5	544.3	919.7	1165.7
17.5°	204.3	238.7	395.7	779.6	1064.9
20°	148.6	171.7	279.2	642.2	932.1
22.5°	108.1	125.5	198.7	513.3	797.6
25°	79.4	92.3	145.8	397.4	663.0
27.5°	59.1	69.2	109.2	301.7	528.5
30°	44.5	52.9	81.6	222.3	409.8
32.5°	34.3	40.0	62.5	158.7	310.1
35°	27.0	30.4	51.8	112.0	229.6
37.5°	22.5	24.8	42.8	78.2	168.3
40°	19.7	21.4	32.6	55.7	119.3
42.5°	17.4	18.6	23.6	40.0	77.7
45°	15.8	15.8	18.0	28.1	49.0
47.5°	14.6	12.9	14.1	19.7	28.7
50°	12.9	10.7	11.3	13.5	16.3
52.5°	10.1	9.0	9.0	9.0	9.6
55°	7.9	7.3	7.3	6.2	6.8
57.5°	6.2	6.2	5.6	5.1	5.6
60°	5.1	5.1	4.5	3.9	4.5
62.5°	3.9	3.9	3.4	3.4	3.9
65°	3.4	3.4	2.8	2.8	3.4
67.5°	2.8	2.8	2.8	2.3	2.8
70°	2.3	2.3	2.3	2.3	2.3
72.5°	1.7	1.7	2.3	1.7	1.7
75°	1.7	1.7	1.7	1.7	1.7
77.5°	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1
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)