

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: P1178362

Luminaire Tested: LDA2B059027R2050D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178362
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: LDA2B059027R2050D010 2LBD1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

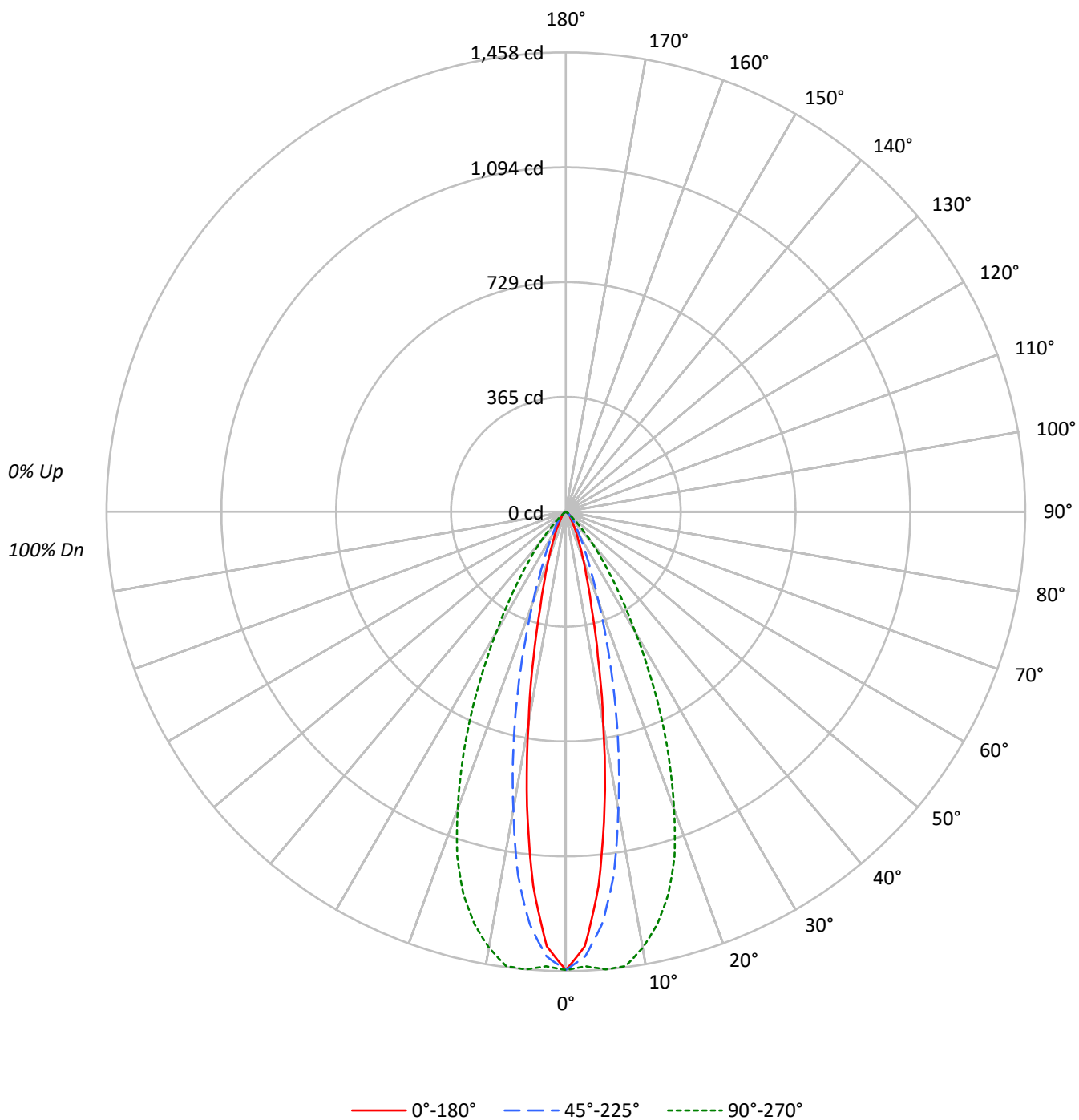
Lumens per Lamp: N/A
Luminaire Lumens: 522.7 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	63		69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	717496	717496	717496
5°	589888	650853	722069
10°	342415	480934	703967
15°	159512	299564	641522
20°	84056	157927	527282
25°	46543	85520	388894
30°	27288	50075	251516
35°	17526	33607	149005
40°	13654	22670	82823
45°	11861	13536	36840
50°	10669	9287	13509
55°	7311	6795	6279
60°	5427	4835	4835
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: 36840 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	22.2
10°-20°	189.6	36.3
20°-30°	126.5	24.2
30°-40°	57.0	10.9
40°-50°	20.9	4.0
50°-60°	7.3	1.4
60°-70°	3.4	0.6
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°	431.9	82.6
0°-40°	488.9	93.5
0°-60°	517.1	98.9
0°-90°	522.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	522.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1191	1228	1314	1410	1458	97
15°	312	367	586	991	1256	94
25°	86	100	157	428	714	41
35°	29	33	56	121	247	19
45°	17	17	19	30	53	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°	1454.3	1454.3	1454.3	1454.3	1454.3
2.5°	1380.9	1395.5	1412.5	1430.1	1444.0
5°	1191.1	1228.1	1314.2	1410.0	1458.0
7.5°	941.9	996.4	1163.8	1353.0	1454.3
10°	683.5	753.2	960.0	1254.2	1405.2
12.5°	470.0	535.5	770.2	1129.3	1340.3
15°	312.3	366.9	586.5	991.0	1256.0
17.5°	220.1	257.1	426.3	840.0	1147.4
20°	160.1	185.0	300.8	692.0	1004.3
22.5°	116.4	135.2	214.1	553.1	859.4
25°	85.5	99.5	157.1	428.2	714.4
27.5°	63.7	74.6	117.7	325.1	569.5
30°	47.9	57.0	87.9	239.6	441.5
32.5°	37.0	43.1	67.3	171.0	334.2
35°	29.1	32.7	55.8	120.7	247.4
37.5°	24.3	26.7	46.1	84.3	181.3
40°	21.2	23.0	35.2	60.0	128.6
42.5°	18.8	20.0	25.5	43.1	83.7
45°	17.0	17.0	19.4	30.3	52.8
47.5°	15.8	13.9	15.2	21.2	30.9
50°	13.9	11.5	12.1	14.6	17.6
52.5°	10.9	9.7	9.7	9.7	10.3
55°	8.5	7.9	7.9	6.7	7.3
57.5°	6.7	6.7	6.1	5.5	6.1
60°	5.5	5.5	4.9	4.2	4.9
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)