

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: P1178440

Luminaire Tested: LDA2B059035R2050D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178440
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: LDA2B059035R2050D010 2LBD1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

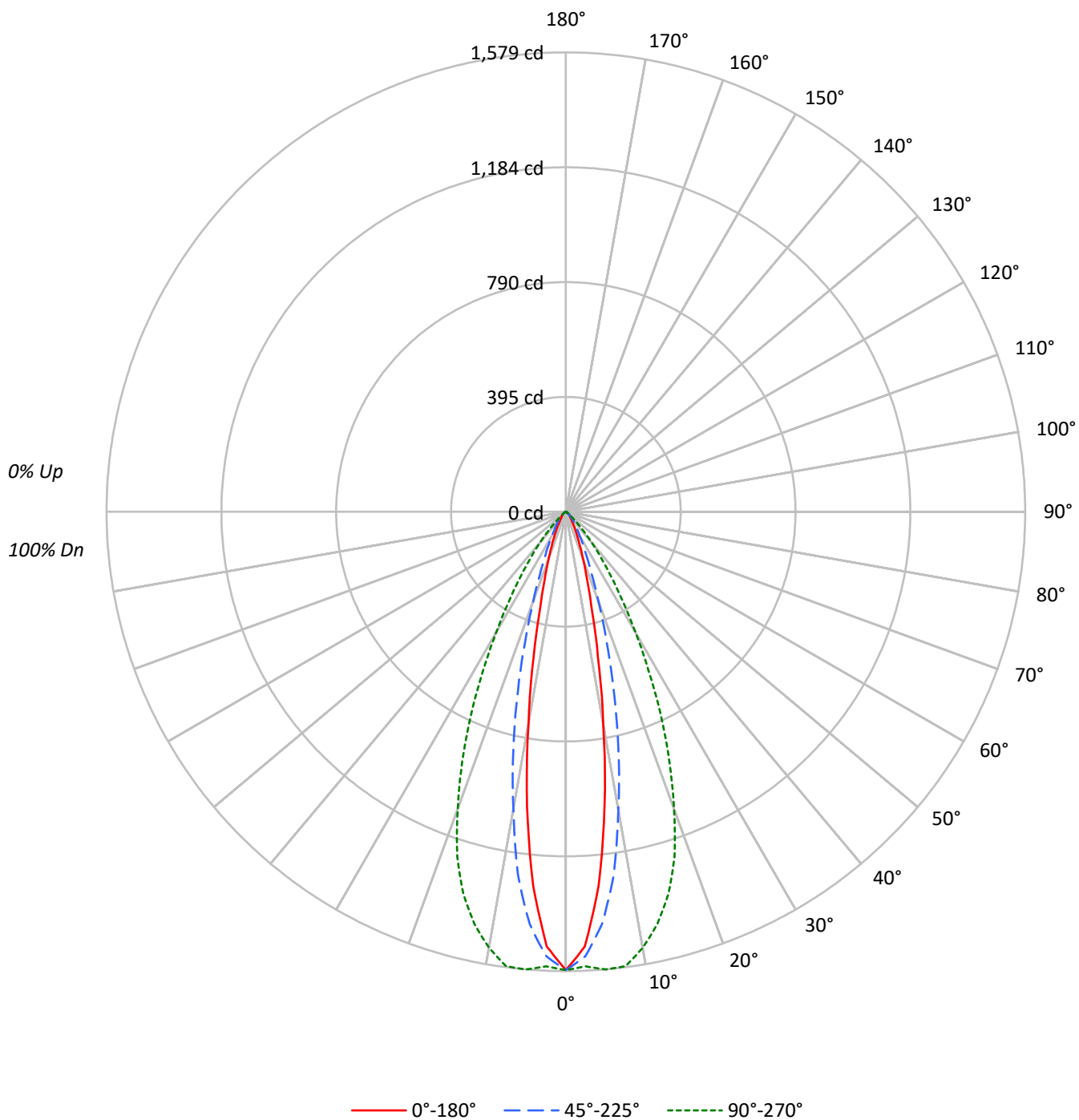
Lumens per Lamp: N/A
Luminaire Lumens: 566.2 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	777143	777143	777143
5°	638917	704983	782044
10°	370870	520911	762480
15°	172792	324438	694846
20°	91039	171053	571122
25°	50408	92596	421229
30°	29567	54234	272423
35°	18972	36378	161412
40°	14813	24538	89715
45°	12838	14652	39840
50°	11590	10055	14583
55°	7913	7311	6795
60°	5822	5230	5230
65°	4553	3852	4553
70°	3750	3750	3750
75°	3812	3812	3812
80°	3694	3694	3694
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 39840 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	22.2
10°-20°	205.4	36.3
20°-30°	137.0	24.2
30°-40°	61.7	10.9
40°-50°	22.6	4.0
50°-60°	7.9	1.4
60°-70°	3.7	0.7
70°-80°	2.0	0.3
80°-90°	0.6	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°	467.8	82.6
0°-40°	529.5	93.5
0°-60°	560.0	98.9
0°-90°	566.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	566.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1575	1575	1575	1575	1575	
5°	1290	1330	1424	1527	1579	105
15°	338	397	635	1073	1360	101
25°	93	108	170	464	774	45
35°	32	36	60	131	268	21
45°	18	18	21	33	57	14
55°	9	8	8	7	8	9
65°	4	4	3	3	4	4
75°	2	2	2	2	2	2
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°	1575.2	1575.2	1575.2	1575.2	1575.2
2.5°	1495.7	1511.5	1529.9	1548.9	1564.0
5°	1290.1	1330.2	1423.5	1527.2	1579.1
7.5°	1020.1	1079.3	1260.5	1465.5	1575.2
10°	740.3	815.8	1039.8	1358.4	1522.0
12.5°	509.1	580.0	834.2	1223.1	1451.7
15°	338.3	397.4	635.2	1073.3	1360.4
17.5°	238.4	278.5	461.8	909.8	1242.8
20°	173.4	200.3	325.8	749.5	1087.8
22.5°	126.1	146.5	231.9	599.1	930.8
25°	92.6	107.7	170.1	463.8	773.8
27.5°	69.0	80.8	127.4	352.1	616.8
30°	51.9	61.7	95.2	259.5	478.2
32.5°	40.1	46.6	72.9	185.2	361.9
35°	31.5	35.5	60.4	130.7	268.0
37.5°	26.3	28.9	49.9	91.3	196.4
40°	23.0	25.0	38.1	65.0	139.3
42.5°	20.4	21.7	27.6	46.6	90.6
45°	18.4	18.4	21.0	32.8	57.1
47.5°	17.1	15.1	16.4	23.0	33.5
50°	15.1	12.5	13.1	15.8	19.0
52.5°	11.8	10.5	10.5	10.5	11.2
55°	9.2	8.5	8.5	7.2	7.9
57.5°	7.2	7.2	6.6	5.9	6.6
60°	5.9	5.9	5.3	4.6	5.3
62.5°	4.6	4.6	3.9	3.9	4.6
65°	3.9	3.9	3.3	3.3	3.9
67.5°	3.3	3.3	3.3	2.6	3.3
70°	2.6	2.6	2.6	2.6	2.6
72.5°	2.0	2.0	2.6	2.0	2.0
75°	2.0	2.0	2.0	2.0	2.0
77.5°	1.3	1.3	1.3	1.3	1.3
80°	1.3	1.3	1.3	1.3	1.3
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	0.7	0.7	0.7
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)