

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: P1178597

Luminaire Tested: LDA2B059730R2050D010 2LBD1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178597
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: LDA2B059730R2050D010 2LBD1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

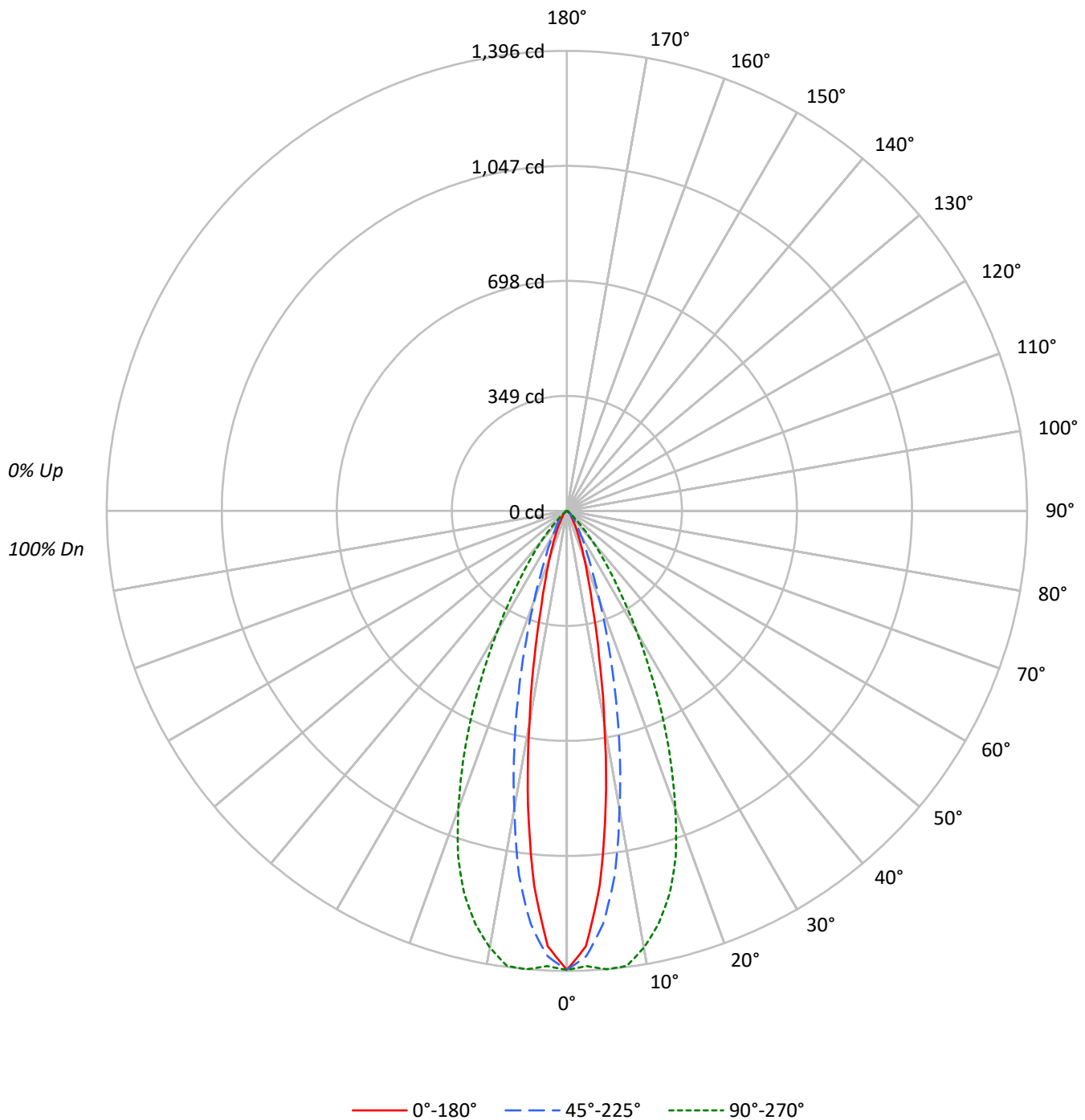
Lumens per Lamp: N/A
Luminaire Lumens: 500.6 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	687105	687105	687105
5°	564878	623268	691463
10°	327887	460594	674109
15°	152770	286846	614349
20°	80486	151260	504969
25°	44583	81872	372400
30°	26149	47967	240863
35°	16804	32162	142741
40°	13074	21704	79281
45°	11373	12978	35235
50°	10285	8903	12895
55°	6967	6537	6021
60°	5131	4539	4539
65°	4086	3385	4086
70°	3318	3318	3318
75°	3241	3241	3241
80°	3409	3409	3409
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 35235 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	22.1
10°-20°	181.6	36.3
20°-30°	121.1	24.2
30°-40°	54.6	10.9
40°-50°	20.0	4.0
50°-60°	7.0	1.4
60°-70°	3.3	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°	413.6	82.6
0°-40°	468.2	93.5
0°-60°	495.2	98.9
0°-90°	500.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	500.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1141	1176	1258	1350	1396	93
15°	299	351	562	949	1203	90
25°	82	95	150	410	684	40
35°	28	31	53	116	237	18
45°	16	16	19	29	50	13
55°	8	8	8	6	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°	1392.7	1392.7	1392.7	1392.7	1392.7
2.5°	1322.4	1336.4	1352.6	1369.5	1382.8
5°	1140.6	1176.1	1258.5	1350.3	1396.2
7.5°	901.9	954.2	1114.5	1295.7	1392.7
10°	654.5	721.3	919.4	1201.0	1345.6
12.5°	450.1	512.8	737.6	1081.4	1283.5
15°	299.1	351.4	561.6	949.0	1202.8
17.5°	210.8	246.2	408.3	804.4	1098.8
20°	153.3	177.1	288.1	662.7	961.8
22.5°	111.5	129.5	205.0	529.7	823.0
25°	81.9	95.2	150.4	410.0	684.1
27.5°	61.0	71.4	112.7	311.3	545.3
30°	45.9	54.6	84.2	229.4	422.8
32.5°	35.4	41.2	64.5	163.8	320.0
35°	27.9	31.4	53.4	115.6	237.0
37.5°	23.2	25.6	44.1	80.7	173.7
40°	20.3	22.1	33.7	57.5	123.1
42.5°	18.0	19.2	24.4	41.2	80.1
45°	16.3	16.3	18.6	29.0	50.5
47.5°	15.1	13.4	14.5	20.3	29.6
50°	13.4	11.0	11.6	13.9	16.8
52.5°	10.5	9.3	9.3	9.3	9.9
55°	8.1	7.6	7.6	6.4	7.0
57.5°	6.4	6.4	5.8	5.2	5.8
60°	5.2	5.2	4.6	4.1	4.6
62.5°	4.1	4.1	3.5	3.5	4.1
65°	3.5	3.5	2.9	2.9	3.5
67.5°	2.9	2.9	2.9	2.3	2.9
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°	1.2	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)