

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: P1178243

Luminaire Tested: LDA2B058040R2050D010 2LBD1LI

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178243
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: LDA2B058040R2050D010 2LBD1LI
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

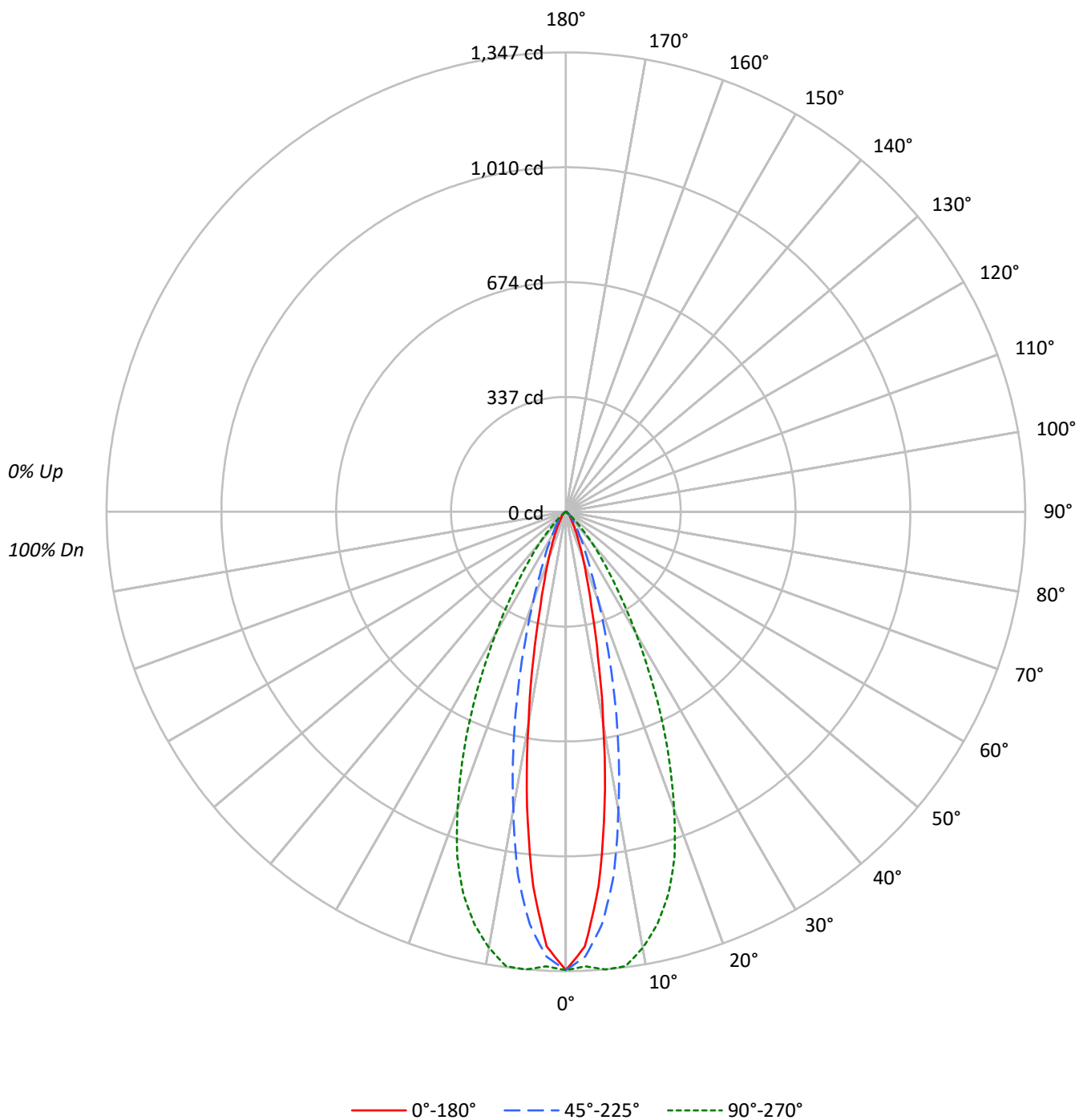
Lumens per Lamp: N/A
Luminaire Lumens: 483.1 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	663029	663029	663029
5°	545118	601477	667245
10°	316414	444463	650513
15°	147407	276784	592846
20°	77704	145957	487275
25°	43005	79042	359389
30°	25237	46315	232432
35°	16201	31078	137742
40°	12623	20931	76512
45°	10954	12489	34049
50°	9901	8596	12511
55°	6709	6279	5763
60°	4934	4440	4440
65°	3969	3269	3969
70°	3173	3173	3173
75°	3241	3241	3241
80°	3125	3125	3125
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 34049 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	22.1
10°-20°	175.2	36.3
20°-30°	116.9	24.2
30°-40°	52.7	10.9
40°-50°	19.3	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°	399.1	82.6
0°-40°	451.8	93.5
0°-60°	477.8	98.9
0°-90°	483.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	483.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1344	1344	1344	1344	1344	
5°	1101	1135	1214	1303	1347	90
15°	289	339	542	916	1161	86
25°	79	92	145	396	660	38
35°	27	30	52	112	229	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°	1343.9	1343.9	1343.9	1343.9	1343.9
2.5°	1276.1	1289.6	1305.3	1321.5	1334.4
5°	1100.7	1134.9	1214.5	1303.0	1347.3
7.5°	870.4	920.8	1075.5	1250.3	1343.9
10°	631.6	696.1	887.2	1159.0	1298.5
12.5°	434.3	494.9	711.8	1043.5	1238.6
15°	288.6	339.1	541.9	915.8	1160.7
17.5°	203.4	237.6	394.0	776.2	1060.3
20°	148.0	170.9	278.0	639.5	928.1
22.5°	107.6	125.0	197.8	511.1	794.1
25°	79.0	91.9	145.2	395.7	660.2
27.5°	58.8	68.9	108.7	300.4	526.3
30°	44.3	52.7	81.3	221.4	408.0
32.5°	34.2	39.8	62.2	158.0	308.8
35°	26.9	30.3	51.6	111.5	228.7
37.5°	22.4	24.7	42.6	77.9	167.6
40°	19.6	21.3	32.5	55.5	118.8
42.5°	17.4	18.5	23.5	39.8	77.3
45°	15.7	15.7	17.9	28.0	48.8
47.5°	14.6	12.9	14.0	19.6	28.6
50°	12.9	10.6	11.2	13.5	16.3
52.5°	10.1	9.0	9.0	9.0	9.5
55°	7.8	7.3	7.3	6.2	6.7
57.5°	6.2	6.2	5.6	5.0	5.6
60°	5.0	5.0	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	2.2	2.8
70°	2.2	2.2	2.2	2.2	2.2
72.5°	1.7	1.7	2.2	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)