

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: P1178473

Luminaire Tested: LDA2B059040R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B059040R2040D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

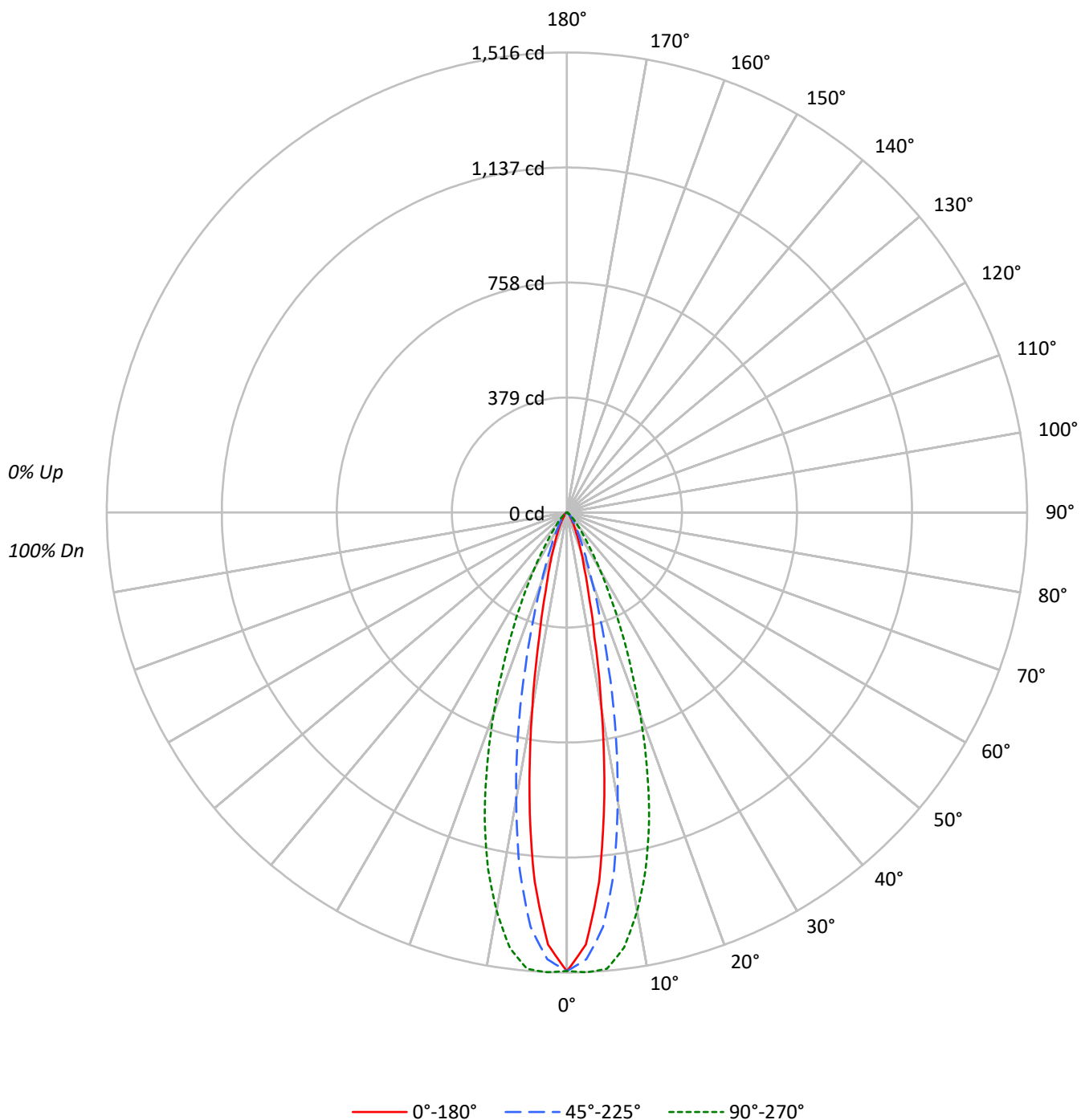
Lumens per Lamp: N/A
Luminaire Lumens: 426.0 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	97	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	92	92	91
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	88	88	87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	84	84	83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	81	81	79
6	94	87	83	79	93	87	82	79	85	81	78	84	80	78	83	80	77	77	77	76
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	74	74	73
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	72	72	70
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	69	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	67	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	745618	745618	745618
5°	604399	678834	747574
10°	328588	481936	667546
15°	138979	270450	534363
20°	70931	127161	369460
25°	39303	65052	225204
30°	21990	36118	122824
35°	12708	21863	62577
40°	9467	16552	34649
45°	8373	11233	20513
50°	8827	7445	10899
55°	6365	5161	5935
60°	4046	3651	3651
65°	3269	3269	3269
70°	2596	2596	2596
75°	2669	2669	2669
80°	2557	2557	2557
85°	2830	2830	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 20513 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	27.6
10°-20°	166.5	39.1
20°-30°	85.8	20.1
30°-40°	31.6	7.4
40°-50°	13.9	3.3
50°-60°	6.1	1.4
60°-70°	2.7	0.6
70°-80°	1.3	0.3
80°-90°	0.4	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°	370.1	86.9
0°-40°	401.6	94.3
0°-60°	421.6	99.0
0°-90°	426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	426.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1511	1511	1511	1511	1511	
5°	1220	1262	1371	1468	1510	98
15°	272	316	530	883	1046	83
25°	72	81	120	274	414	35
35°	21	24	36	63	104	14
45°	12	14	16	19	29	10
55°	7	6	6	6	7	7
65°	3	3	3	2	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1511.3	1511.3	1511.3	1511.3	1511.3
2.5°	1424.9	1441.9	1473.6	1504.0	1516.4
5°	1220.4	1261.7	1370.7	1467.6	1509.5
7.5°	945.0	1013.1	1189.6	1371.1	1445.6
10°	655.9	724.9	962.0	1223.1	1332.5
12.5°	418.3	485.4	741.4	1059.0	1201.1
15°	272.1	316.2	529.5	883.4	1046.2
17.5°	188.9	220.2	360.4	697.3	874.7
20°	135.1	157.2	242.2	531.8	703.7
22.5°	97.9	113.1	168.2	388.4	547.0
25°	72.2	80.9	119.5	274.4	413.7
27.5°	53.3	58.8	86.4	189.4	302.4
30°	38.6	43.2	63.4	130.1	215.6
32.5°	28.0	32.2	47.3	90.1	150.3
35°	21.1	24.4	36.3	63.4	103.9
37.5°	17.5	19.3	29.9	46.0	73.5
40°	14.7	16.5	25.7	34.0	53.8
42.5°	12.9	15.2	21.1	25.3	40.4
45°	12.0	13.8	16.1	19.3	29.4
47.5°	12.0	11.5	12.4	14.7	20.7
50°	11.5	9.7	9.7	11.5	14.2
52.5°	9.7	7.8	7.8	8.3	9.7
55°	7.4	6.4	6.0	6.4	6.9
57.5°	5.5	5.5	5.1	4.6	5.1
60°	4.1	4.1	3.7	3.7	3.7
62.5°	3.2	3.2	3.2	2.8	3.2
65°	2.8	2.8	2.8	2.3	2.8
67.5°	2.3	2.3	1.8	2.3	2.3
70°	1.8	1.8	1.8	1.8	1.8
72.5°	1.4	1.4	1.4	1.4	1.4
75°	1.4	1.4	1.4	1.4	1.4
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.5	0.5
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)