

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: P1178530

Luminaire Tested: LDA2B059050R2060D010 2LBD1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-034-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B059050R2060D010 2LBD1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

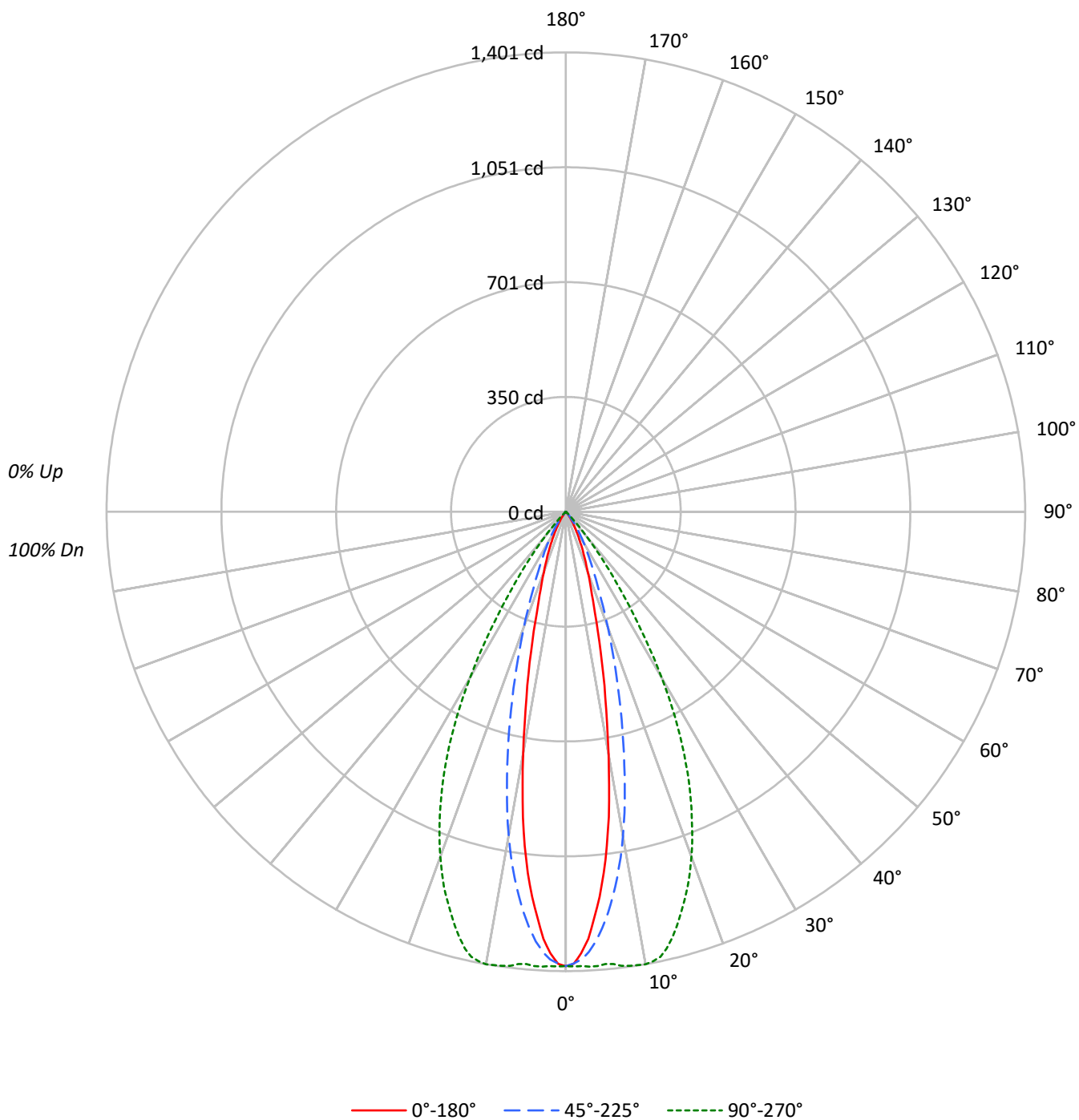
Lumens per Lamp: N/A
Luminaire Lumens: 552.1 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 0.36 / 0.9 / 0.52
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	93	92	92	92	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	91	89	87	87	87	86
4	101	95	90	87	99	94	89	86	92	88	85	90	87	84	88	85	83	83	83	82
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	79	79	78
6	93	86	81	77	92	85	81	77	84	80	77	82	79	76	81	78	76	76	76	74
7	90	82	77	74	89	81	77	73	80	76	73	79	75	73	78	75	72	72	72	71
8	86	79	74	70	85	78	73	70	77	73	70	76	72	69	75	72	69	69	69	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	66	66	65
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	64	64	64	62

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	683750	683750	683750
5°	583895	631142	685718
10°	375930	503127	702063
15°	192865	335573	668082
20°	103010	196097	587608
25°	57430	107512	477952
30°	30592	61241	332981
35°	13371	29512	173578
40°	3864	8630	65756
45°	907	2372	9838
50°	537	537	998
55°	602	602	602
60°	0	691	691
65°	0	817	817
70°	0	1010	1010
75°	0	1334	1334
80°	0	1989	1989
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 9838 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	20.7
10°-20°	208.2	37.7
20°-30°	157.8	28.6
30°-40°	63.1	11.4
40°-50°	6.4	1.2
50°-60°	0.7	0.1
60°-70°	0.6	0.1
70°-80°	0.6	0.1
80°-90°	0.2	0.0
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°	480.5	87.0
0°-40°	543.6	98.5
0°-60°	550.7	99.7
0°-90°	552.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	552.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1179	1205	1274	1348	1385	99
15°	378	438	657	1082	1308	108
25°	106	123	198	564	878	50
35°	22	28	49	149	288	15
45°	1	2	3	7	14	2
55°	1	1	1	1	1	0
65°	0	1	1	1	1	0
75°	0	1	1	1	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.9	1385.9	1385.9	1385.9	1385.9
1°	1378.5	1379.2	1377.9	1379.9	1386.6
2°	1347.6	1357.7	1366.4	1375.2	1386.6
3°	1304.6	1316.7	1344.3	1371.8	1389.3
4°	1241.5	1266.3	1313.4	1363.8	1389.3
5°	1179.0	1205.2	1274.4	1348.3	1384.6
6°	1107.8	1145.4	1229.4	1333.5	1387.3
7°	1027.2	1073.5	1179.7	1324.1	1395.3
8°	939.8	992.2	1125.3	1304.0	1398.7
9°	843.1	906.9	1067.5	1279.8	1400.0
10°	750.4	817.6	1004.3	1252.2	1401.4
11°	657.7	727.6	935.8	1225.4	1396.0
12°	579.1	645.6	863.9	1197.1	1387.9
13°	506.5	571.0	792.7	1163.6	1367.1
14°	439.4	502.5	724.2	1124.6	1339.6
15°	377.6	438.0	657.0	1081.6	1308.0
16°	321.8	378.2	592.5	1033.9	1273.1
17°	281.5	326.5	532.1	983.5	1238.8
18°	249.9	283.5	475.0	933.8	1202.5
19°	221.7	248.6	421.9	882.1	1162.2
20°	196.2	220.4	373.5	828.3	1119.2
21°	174.7	195.5	328.5	775.3	1075.6
22°	155.9	174.0	288.2	722.9	1027.9
23°	138.4	154.5	253.9	669.8	980.2
24°	121.6	139.1	223.7	616.0	930.4
25°	105.5	122.9	197.5	564.3	878.0
26°	92.7	108.8	175.3	513.9	823.6
27°	79.9	96.7	155.9	465.6	768.5
28°	69.9	85.3	138.4	419.2	708.7
29°	60.5	75.2	122.3	373.5	647.6
30°	53.7	65.2	107.5	330.5	584.5
32.5°	36.9	43.7	75.2	232.4	426.6
35°	22.2	27.5	49.0	149.1	288.2
37.5°	12.1	14.8	28.2	89.3	181.4
40°	6.0	7.4	13.4	43.7	102.1
42.5°	2.7	3.4	6.0	16.8	43.7
45°	1.3	2.0	3.4	6.7	14.1
47.5°	0.7	1.3	1.3	2.7	4.0
50°	0.7	0.7	0.7	1.3	1.3
52.5°	0.7	0.7	0.7	1.3	1.3
55°	0.7	0.7	0.7	0.7	0.7
57.5°	0.0	0.7	0.7	0.7	0.7
60°	0.0	0.7	0.7	0.7	0.7
62.5°	0.0	0.7	0.7	0.7	0.7
65°	0.0	0.7	0.7	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.0	0.7	0.7	0.7	0.7
70°	0.0	0.7	0.7	0.7	0.7
72.5°	0.0	0.7	0.7	0.7	0.7
75°	0.0	0.7	0.7	0.7	0.7
77.5°	0.0	0.7	0.7	0.7	0.7
80°	0.0	0.0	0.7	0.7	0.7
82.5°	0.0	0.0	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0
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)