

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: P1179570

Luminaire Tested: LDA2B159727R2050D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179570
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: LDA2B159727R2050D010 2LBDC1MB
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

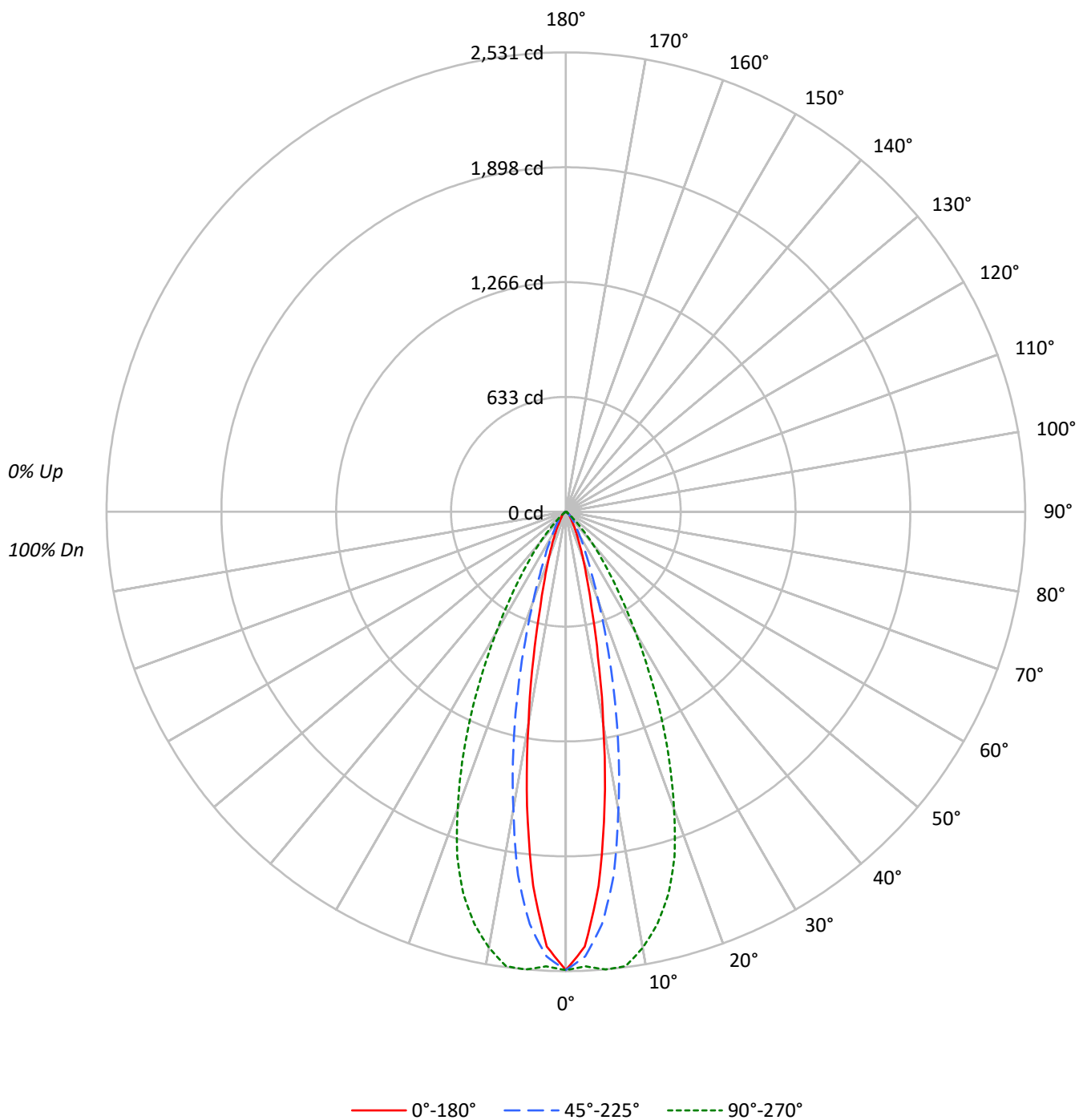
Lumens per Lamp: N/A
Luminaire Lumens: 907.6 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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°	1245689	1245689	1245689
5°	1024120	1129954	1253568
10°	594454	834971	1222173
15°	276937	520062	1113776
20°	145957	274168	915433
25°	80838	148448	675175
30°	47398	86991	436664
35°	30415	58361	258741
40°	23765	39351	143749
45°	20583	23513	63911
50°	18574	16195	23410
55°	12644	11784	10838
60°	9374	8288	8288
65°	7355	6187	7355
70°	6058	6058	6058
75°	6100	6100	6100
80°	5966	5966	5966
85°	6227	6227	6227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 63911 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	22.1
10°-20°	329.2	36.3
20°-30°	219.6	24.2
30°-40°	99.0	10.9
40°-50°	36.2	4.0
50°-60°	12.7	1.4
60°-70°	5.9	0.7
70°-80°	3.1	0.3
80°-90°	0.9	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°	749.8	82.6
0°-40°	848.8	93.5
0°-60°	897.7	98.9
0°-90°	907.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	907.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2525	2525	2525	2525	2525	
5°	2068	2132	2282	2448	2531	169
15°	542	637	1018	1720	2181	162
25°	148	173	273	743	1240	72
35°	50	57	97	210	430	33
45°	30	30	34	53	92	23
55°	15	14	14	12	13	14
65°	6	6	5	5	6	6
75°	3	3	3	3	3	3
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°	2524.9	2524.9	2524.9	2524.9	2524.9
2.5°	2397.5	2422.7	2452.2	2482.7	2507.0
5°	2067.9	2132.1	2281.6	2448.0	2531.2
7.5°	1635.2	1729.9	2020.5	2349.0	2524.9
10°	1186.6	1307.7	1666.7	2177.4	2439.6
12.5°	816.0	929.7	1337.2	1960.5	2326.9
15°	542.2	637.0	1018.2	1720.4	2180.6
17.5°	382.2	446.4	740.2	1458.3	1992.1
20°	278.0	321.1	522.2	1201.4	1743.6
22.5°	202.2	234.8	371.7	960.2	1492.0
25°	148.5	172.7	272.7	743.3	1240.3
27.5°	110.6	129.5	204.3	564.4	988.7
30°	83.2	99.0	152.7	415.9	766.5
32.5°	64.2	74.8	116.9	296.9	580.1
35°	50.5	56.9	96.9	209.5	429.6
37.5°	42.1	46.3	80.0	146.4	314.8
40°	36.9	40.0	61.1	104.2	223.2
42.5°	32.6	34.7	44.2	74.8	145.3
45°	29.5	29.5	33.7	52.6	91.6
47.5°	27.4	24.2	26.3	36.9	53.7
50°	24.2	20.0	21.1	25.3	30.5
52.5°	19.0	16.8	16.8	16.8	17.9
55°	14.7	13.7	13.7	11.6	12.6
57.5°	11.6	11.6	10.5	9.5	10.5
60°	9.5	9.5	8.4	7.4	8.4
62.5°	7.4	7.4	6.3	6.3	7.4
65°	6.3	6.3	5.3	5.3	6.3
67.5°	5.3	5.3	5.3	4.2	5.3
70°	4.2	4.2	4.2	4.2	4.2
72.5°	3.2	3.2	4.2	3.2	3.2
75°	3.2	3.2	3.2	3.2	3.2
77.5°	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1
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)