

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: P1179337

Luminaire Tested: LDA2B159024R2050D010 2LBDC1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179337
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: LDA2B159024R2050D010 2LBDC1MMS
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

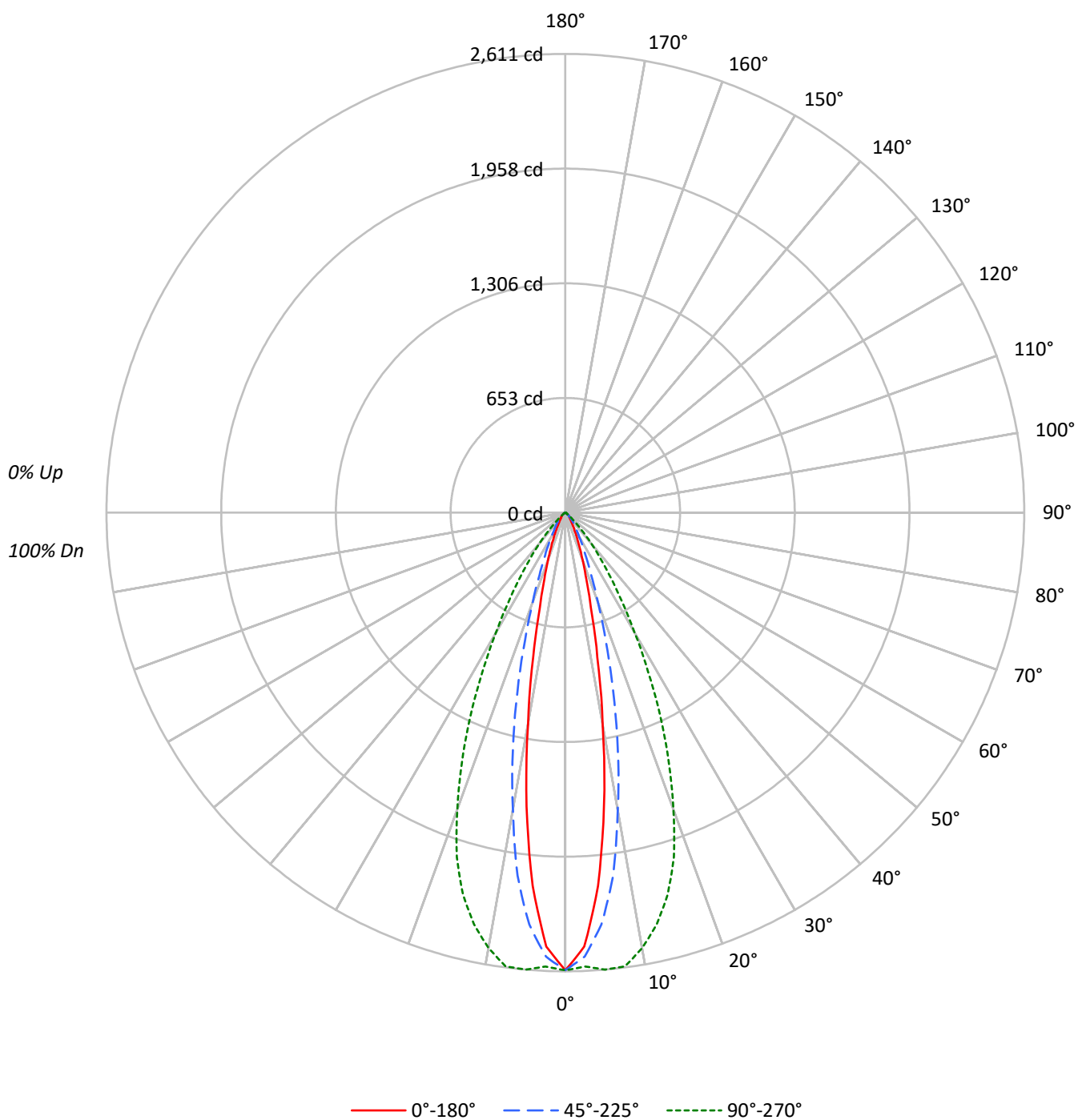
Lumens per Lamp: N/A
Luminaire Lumens: 936.2 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1179337

CATALOG NUMBER: LDA2B159024R2050D010 2LBDC1MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1179337

CATALOG NUMBER: LDA2B159024R2050D010 2LBDC1MMS

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°	1284862	1284862	1284862
5°	1056311	1165513	1292989
10°	613140	861272	1260598
15°	285671	536406	1148814
20°	150525	282831	944257
25°	83342	153130	696406
30°	48879	89725	450393
35°	31379	60168	266872
40°	24473	40574	148258
45°	21211	24281	65934
50°	19188	16656	24177
55°	13074	12128	11182
60°	9670	8584	8584
65°	7588	6304	7588
70°	6203	6203	6203
75°	6290	6290	6290
80°	6251	6251	6251
85°	6227	6227	6227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 65934 cd/sqm

TEST NUMBER: P1179337

CATALOG NUMBER: LDA2B159024R2050D010 2LBDC1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.4	22.1
10°-20°	339.5	36.3
20°-30°	226.5	24.2
30°-40°	102.1	10.9
40°-50°	37.4	4.0
50°-60°	13.1	1.4
60°-70°	6.1	0.7
70°-80°	3.2	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°	773.4	82.6
0°-40°	875.5	93.5
0°-60°	925.9	98.9
0°-90°	936.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	936.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2604	2604	2604	2604	2604	
5°	2133	2199	2353	2525	2611	174
15°	559	657	1050	1775	2249	167
25°	153	178	281	767	1279	74
35°	52	59	100	216	443	35
45°	30	30	35	54	94	24
55°	15	14	14	12	13	14
65°	6	6	5	5	6	7
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1179337

CATALOG NUMBER: LDA2B159024R2050D010 2LBDC1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2604.3	2604.3	2604.3	2604.3	2604.3
2.5°	2472.9	2498.9	2529.3	2560.8	2585.8
5°	2132.9	2199.2	2353.4	2525.0	2610.8
7.5°	1686.6	1784.3	2084.1	2422.9	2604.3
10°	1223.9	1348.8	1719.2	2245.9	2516.3
12.5°	841.7	959.0	1379.2	2022.2	2400.1
15°	559.3	657.0	1050.2	1774.6	2249.2
17.5°	394.2	460.5	763.5	1504.1	2054.8
20°	286.7	331.2	538.7	1239.2	1798.5
22.5°	208.5	242.2	383.4	990.5	1538.9
25°	153.1	178.1	281.3	766.7	1279.3
27.5°	114.0	133.6	210.7	582.1	1019.8
30°	85.8	102.1	157.5	429.0	790.6
32.5°	66.2	77.1	120.5	306.3	598.4
35°	52.1	58.6	99.9	216.1	443.1
37.5°	43.4	47.8	82.5	151.0	324.7
40°	38.0	41.3	63.0	107.5	230.2
42.5°	33.7	35.8	45.6	77.1	149.9
45°	30.4	30.4	34.8	54.3	94.5
47.5°	28.2	25.0	27.2	38.0	55.4
50°	25.0	20.6	21.7	26.1	31.5
52.5°	19.5	17.4	17.4	17.4	18.5
55°	15.2	14.1	14.1	11.9	13.0
57.5°	11.9	11.9	10.9	9.8	10.9
60°	9.8	9.8	8.7	7.6	8.7
62.5°	7.6	7.6	6.5	6.5	7.6
65°	6.5	6.5	5.4	5.4	6.5
67.5°	5.4	5.4	5.4	4.3	5.4
70°	4.3	4.3	4.3	4.3	4.3
72.5°	3.3	3.3	4.3	3.3	3.3
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.2	2.2	2.2	2.2	2.2
80°	2.2	2.2	2.2	2.2	2.2
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)