

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: P1179487

Luminaire Tested: LDA2B159040R2050D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179487
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: LDA2B159040R2050D010 2LBD1MMS
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

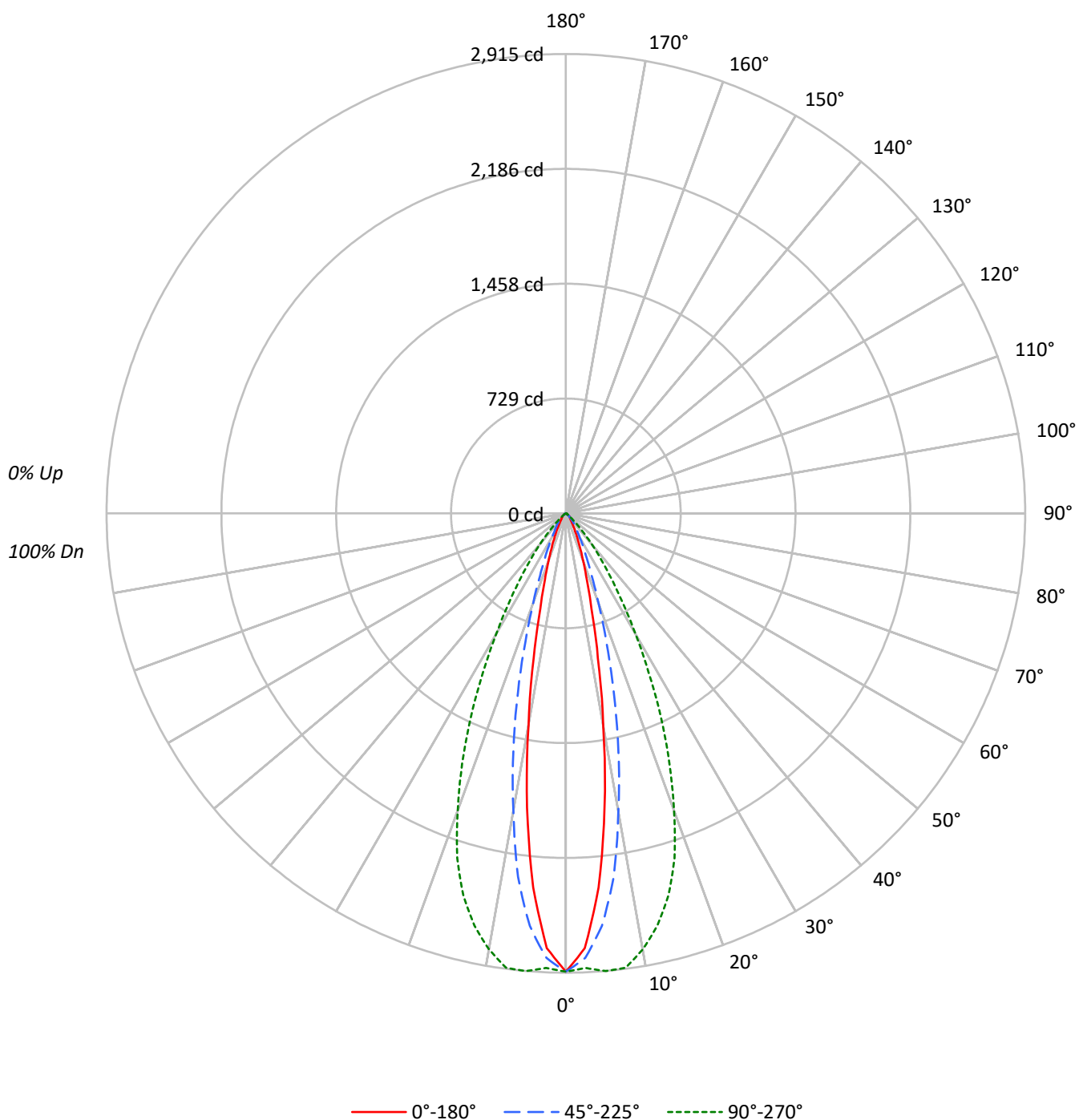
Lumens per Lamp: N/A
Luminaire Lumens: 1045.3 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P1179487

CATALOG NUMBER: LDA2B159040R2050D010 2LBD1MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1179487

CATALOG NUMBER: LDA2B159040R2050D010 2LBD1MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83	80	78	76
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77	73	71	70
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74	70	68	67
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1434696	1434696	1434696
5°	1179528	1301458	1443792
10°	684679	961717	1407633
15°	318973	598975	1282788
20°	168060	315802	1054354
25°	93086	170985	777625
30°	54576	100151	502918
35°	35053	67215	298010
40°	27307	45276	165582
45°	23722	27071	73609
50°	21414	18651	27017
55°	14623	13590	12558
60°	10755	9571	9571
65°	8522	7121	8522
70°	7068	7068	7068
75°	6862	6862	6862
80°	6819	6819	6819
85°	6793	6793	6793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 73609 cd/sqm

TEST NUMBER: P1179487

CATALOG NUMBER: LDA2B159040R2050D010 2LBD1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	22.2
10°-20°	379.1	36.3
20°-30°	252.9	24.2
30°-40°	114.0	10.9
40°-50°	41.7	4.0
50°-60°	14.6	1.4
60°-70°	6.9	0.7
70°-80°	3.6	0.3
80°-90°	1.0	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°	863.6	82.6
0°-40°	977.6	93.5
0°-60°	1033.9	98.9
0°-90°	1045.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1045.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2908	2908	2908	2908	2908	
5°	2382	2456	2628	2820	2915	194
15°	624	734	1173	1982	2512	187
25°	171	199	314	856	1428	83
35°	58	66	112	241	495	39
45°	34	34	39	61	106	27
55°	17	16	16	13	15	16
65°	7	7	6	6	7	7
75°	4	4	4	4	4	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1179487

CATALOG NUMBER: LDA2B159040R2050D010 2LBD1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2908.0	2908.0	2908.0	2908.0	2908.0
2.5°	2761.3	2790.4	2824.3	2859.5	2887.4
5°	2381.7	2455.7	2627.9	2819.5	2915.3
7.5°	1883.3	1992.4	2327.1	2705.5	2908.0
10°	1366.7	1506.1	1919.7	2507.8	2809.8
12.5°	939.8	1070.8	1540.1	2258.0	2680.0
15°	624.5	733.7	1172.7	1981.5	2511.5
17.5°	440.2	514.2	852.5	1679.6	2294.4
20°	320.1	369.9	601.5	1383.7	2008.2
22.5°	232.8	270.4	428.1	1106.0	1718.4
25°	171.0	198.9	314.1	856.2	1428.5
27.5°	127.3	149.2	235.3	650.0	1138.7
30°	95.8	114.0	175.8	479.0	882.8
32.5°	74.0	86.1	134.6	342.0	668.2
35°	58.2	65.5	111.6	241.3	494.8
37.5°	48.5	53.4	92.2	168.6	362.6
40°	42.4	46.1	70.3	120.1	257.1
42.5°	37.6	40.0	50.9	86.1	167.3
45°	34.0	34.0	38.8	60.6	105.5
47.5°	31.5	27.9	30.3	42.4	61.8
50°	27.9	23.0	24.3	29.1	35.2
52.5°	21.8	19.4	19.4	19.4	20.6
55°	17.0	15.8	15.8	13.3	14.6
57.5°	13.3	13.3	12.1	10.9	12.1
60°	10.9	10.9	9.7	8.5	9.7
62.5°	8.5	8.5	7.3	7.3	8.5
65°	7.3	7.3	6.1	6.1	7.3
67.5°	6.1	6.1	6.1	4.9	6.1
70°	4.9	4.9	4.9	4.9	4.9
72.5°	3.6	3.6	4.9	3.6	3.6
75°	3.6	3.6	3.6	3.6	3.6
77.5°	2.4	2.4	2.4	2.4	2.4
80°	2.4	2.4	2.4	2.4	2.4
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2
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)