

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: P1179494

Luminaire Tested: LDA2B159040R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179494
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 2LBDC1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

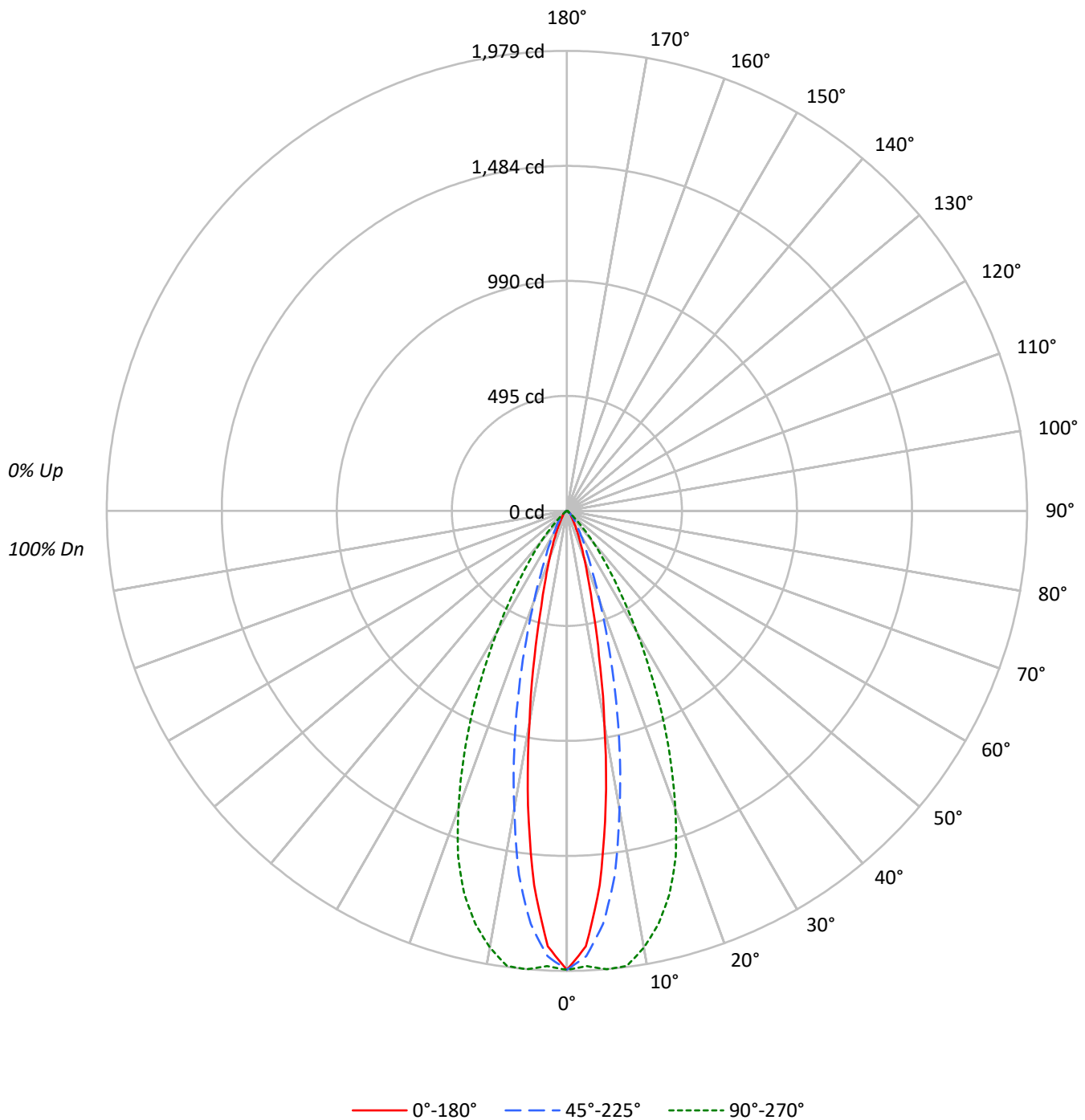
Lumens per Lamp: N/A
Luminaire Lumens: 709.6 lumens
Efficiency: N/A
Efficacy: 50.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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			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°	973946	973946	973946
5°	800714	883470	980093
10°	464802	652868	955555
15°	216565	406621	870804
20°	114088	214368	715766
25°	63201	116059	527925
30°	37030	68020	341412
35°	23790	45593	202307
40°	18548	30721	112385
45°	16117	18350	49957
50°	14506	12664	18344
55°	9892	9204	8515
60°	7302	6512	6512
65°	5720	4786	5720
70°	4760	4760	4760
75°	4766	4766	4766
80°	4546	4546	4546
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 49957 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.2	22.2
10°-20°	257.4	36.3
20°-30°	171.7	24.2
30°-40°	77.4	10.9
40°-50°	28.3	4.0
50°-60°	9.9	1.4
60°-70°	4.6	0.7
70°-80°	2.4	0.3
80°-90°	0.7	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°	586.2	82.6
0°-40°	663.6	93.5
0°-60°	701.9	98.9
0°-90°	709.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	709.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1974	1974	1974	1974	1974	
5°	1617	1667	1784	1914	1979	132
15°	424	498	796	1345	1705	127
25°	116	135	213	581	970	56
35°	40	44	76	164	336	26
45°	23	23	26	41	72	18
55°	12	11	11	9	10	11
65°	5	5	4	4	5	5
75°	2	2	2	2	2	2
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°	1974.1	1974.1	1974.1	1974.1	1974.1
2.5°	1874.5	1894.2	1917.3	1941.2	1960.1
5°	1616.8	1667.0	1783.9	1914.0	1979.0
7.5°	1278.5	1352.6	1579.8	1836.6	1974.1
10°	927.8	1022.4	1303.2	1702.4	1907.4
12.5°	638.0	726.9	1045.5	1532.8	1819.3
15°	424.0	498.0	796.1	1345.1	1704.9
17.5°	298.8	349.0	578.7	1140.2	1557.5
20°	217.3	251.1	408.3	939.3	1363.3
22.5°	158.1	183.6	290.6	750.8	1166.5
25°	116.1	135.0	213.2	581.2	969.8
27.5°	86.4	101.3	159.7	441.2	773.0
30°	65.0	77.4	119.4	325.2	599.3
32.5°	50.2	58.4	91.4	232.1	453.6
35°	39.5	44.5	75.7	163.8	335.9
37.5°	32.9	36.2	62.6	114.4	246.1
40°	28.8	31.3	47.7	81.5	174.5
42.5°	25.5	27.2	34.6	58.4	113.6
45°	23.1	23.1	26.3	41.2	71.6
47.5°	21.4	18.9	20.6	28.8	42.0
50°	18.9	15.6	16.5	19.8	23.9
52.5°	14.8	13.2	13.2	13.2	14.0
55°	11.5	10.7	10.7	9.1	9.9
57.5°	9.1	9.1	8.2	7.4	8.2
60°	7.4	7.4	6.6	5.8	6.6
62.5°	5.8	5.8	4.9	4.9	5.8
65°	4.9	4.9	4.1	4.1	4.9
67.5°	4.1	4.1	4.1	3.3	4.1
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.5	2.5	3.3	2.5	2.5
75°	2.5	2.5	2.5	2.5	2.5
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
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)