

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: P1178983

Luminaire Tested: LDA2B109040R2050D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178983
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: LDA2B109040R2050D010 2LBD1MMS
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

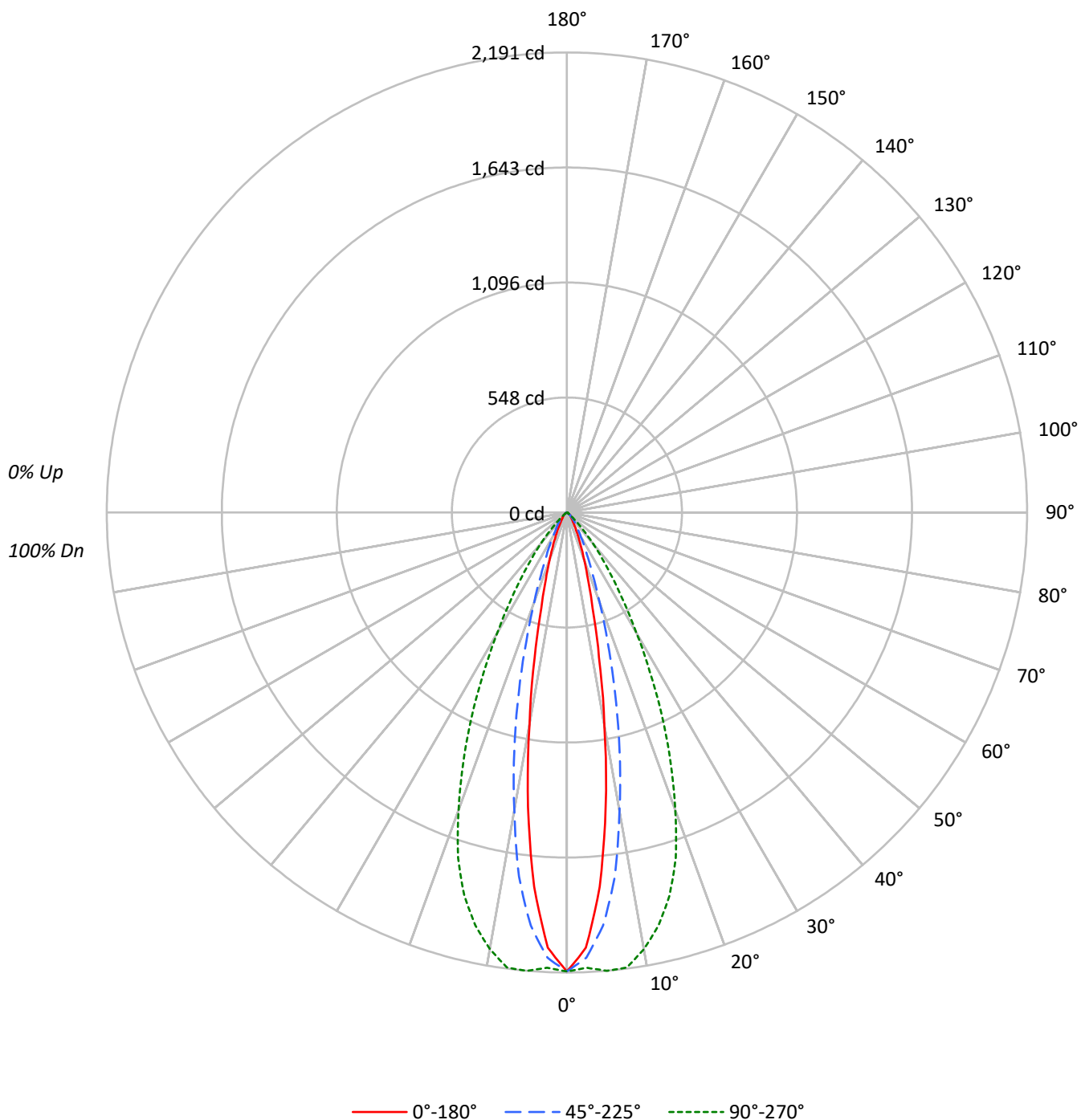
Lumens per Lamp: N/A
Luminaire Lumens: 785.6 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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°	1078242	1078242	1078242
5°	886491	978112	1085085
10°	514549	722753	1057904
15°	239753	450138	964070
20°	126321	237311	792367
25°	69951	128470	584430
30°	41017	75312	377986
35°	26320	50471	223929
40°	20545	34070	124428
45°	17792	20373	55329
50°	16118	13969	20263
55°	11010	10150	9376
60°	8091	7203	7203
65°	6421	5370	6421
70°	5193	5193	5193
75°	5147	5147	5147
80°	5114	5114	5114
85°	5095	5095	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 55329 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	22.2
10°-20°	284.9	36.3
20°-30°	190.1	24.2
30°-40°	85.7	10.9
40°-50°	31.4	4.0
50°-60°	11.0	1.4
60°-70°	5.2	0.7
70°-80°	2.7	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°	649.0	82.6
0°-40°	734.7	93.5
0°-60°	777.0	98.9
0°-90°	785.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	785.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2186	2186	2186	2186	2186	
5°	1790	1846	1975	2119	2191	146
15°	469	551	881	1489	1888	141
25°	128	150	236	643	1074	62
35°	44	49	84	181	372	29
45°	26	26	29	46	79	20
55°	13	12	12	10	11	12
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°	2185.5	2185.5	2185.5	2185.5	2185.5
2.5°	2075.2	2097.1	2122.6	2149.0	2170.0
5°	1790.0	1845.5	1975.0	2119.0	2191.0
7.5°	1415.4	1497.4	1748.9	2033.3	2185.5
10°	1027.1	1131.9	1442.7	1884.7	2111.7
12.5°	706.3	804.7	1157.5	1697.0	2014.2
15°	469.4	551.4	881.3	1489.2	1887.5
17.5°	330.8	386.4	640.7	1262.3	1724.3
20°	240.6	278.0	452.0	1039.9	1509.2
22.5°	175.0	203.2	321.7	831.2	1291.4
25°	128.5	149.5	236.0	643.4	1073.6
27.5°	95.7	112.1	176.8	488.5	855.8
30°	72.0	85.7	132.2	360.0	663.5
32.5°	55.6	64.7	101.2	257.0	502.2
35°	43.7	49.2	83.8	181.4	371.8
37.5°	36.5	40.1	69.3	126.7	272.5
40°	31.9	34.6	52.9	90.2	193.2
42.5°	28.3	30.1	38.3	64.7	125.8
45°	25.5	25.5	29.2	45.6	79.3
47.5°	23.7	21.0	22.8	31.9	46.5
50°	21.0	17.3	18.2	21.9	26.4
52.5°	16.4	14.6	14.6	14.6	15.5
55°	12.8	11.8	11.8	10.0	10.9
57.5°	10.0	10.0	9.1	8.2	9.1
60°	8.2	8.2	7.3	6.4	7.3
62.5°	6.4	6.4	5.5	5.5	6.4
65°	5.5	5.5	4.6	4.6	5.5
67.5°	4.6	4.6	4.6	3.6	4.6
70°	3.6	3.6	3.6	3.6	3.6
72.5°	2.7	2.7	3.6	2.7	2.7
75°	2.7	2.7	2.7	2.7	2.7
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
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)