

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: P1179025

Luminaire Tested: LDA2B109050R2050D010 2LBD1WHH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179025
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: LDA2B109050R2050D010 2LBD1WHH
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

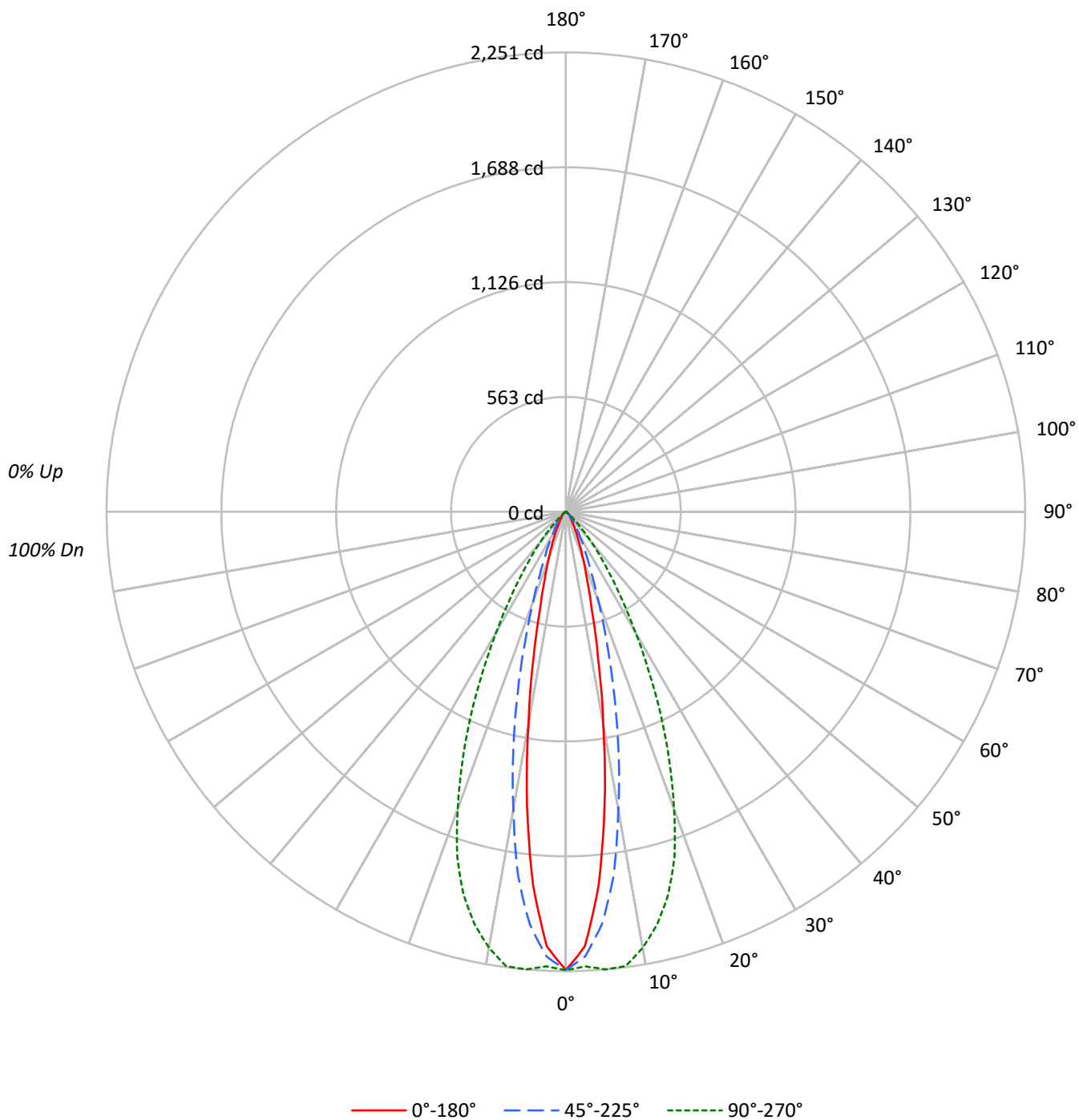
Lumens per Lamp: N/A
Luminaire Lumens: 807.1 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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			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°	1107745	1107745	1107745
5°	910709	1004855	1114750
10°	528626	742542	1086810
15°	246291	462447	990426
20°	129786	243821	814051
25°	71856	132008	600434
30°	42157	77363	388297
35°	27043	51857	230072
40°	21124	34971	127842
45°	18280	20932	56864
50°	16502	14353	20877
55°	11268	10494	9634
60°	8288	7400	7400
65°	6537	5487	6537
70°	5337	5337	5337
75°	5337	5337	5337
80°	5398	5398	5398
85°	5095	5095	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 56864 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	22.2
10°-20°	292.7	36.3
20°-30°	195.3	24.2
30°-40°	88.0	10.9
40°-50°	32.2	4.0
50°-60°	11.3	1.4
60°-70°	5.3	0.7
70°-80°	2.8	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°	666.8	82.6
0°-40°	754.8	93.5
0°-60°	798.3	98.9
0°-90°	807.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	807.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2245	2245	2245	2245	2245	
5°	1839	1896	2029	2177	2251	150
15°	482	566	905	1530	1939	144
25°	132	154	242	661	1103	64
35°	45	51	86	186	382	30
45°	26	26	30	47	82	21
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°	2245.3	2245.3	2245.3	2245.3	2245.3
2.5°	2132.0	2154.5	2180.7	2207.8	2229.4
5°	1838.9	1896.0	2029.0	2176.9	2250.9
7.5°	1454.1	1538.4	1796.8	2088.9	2245.3
10°	1055.2	1162.9	1482.2	1936.3	2169.4
12.5°	725.6	826.8	1189.1	1743.4	2069.3
15°	482.2	566.5	905.4	1529.9	1939.1
17.5°	339.9	397.0	658.2	1296.8	1771.5
20°	247.2	285.6	464.4	1068.3	1550.5
22.5°	179.8	208.8	330.5	853.9	1326.8
25°	132.0	153.6	242.5	661.0	1103.0
27.5°	98.3	115.2	181.6	501.9	879.2
30°	74.0	88.0	135.8	369.8	681.6
32.5°	57.1	66.5	103.9	264.0	515.9
35°	44.9	50.6	86.1	186.3	382.0
37.5°	37.5	41.2	71.2	130.1	280.0
40°	32.8	35.6	54.3	92.7	198.5
42.5°	29.0	30.9	39.3	66.5	129.2
45°	26.2	26.2	30.0	46.8	81.5
47.5°	24.3	21.5	23.4	32.8	47.8
50°	21.5	17.8	18.7	22.5	27.2
52.5°	16.9	15.0	15.0	15.0	15.9
55°	13.1	12.2	12.2	10.3	11.2
57.5°	10.3	10.3	9.4	8.4	9.4
60°	8.4	8.4	7.5	6.6	7.5
62.5°	6.6	6.6	5.6	5.6	6.6
65°	5.6	5.6	4.7	4.7	5.6
67.5°	4.7	4.7	4.7	3.7	4.7
70°	3.7	3.7	3.7	3.7	3.7
72.5°	2.8	2.8	3.7	2.8	2.8
75°	2.8	2.8	2.8	2.8	2.8
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9
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)