

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: P1178947

Luminaire Tested: LDA2B109035R2050D010 2LBD1WHH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178947
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: LDA2B109035R2050D010 2LBD1WHH
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

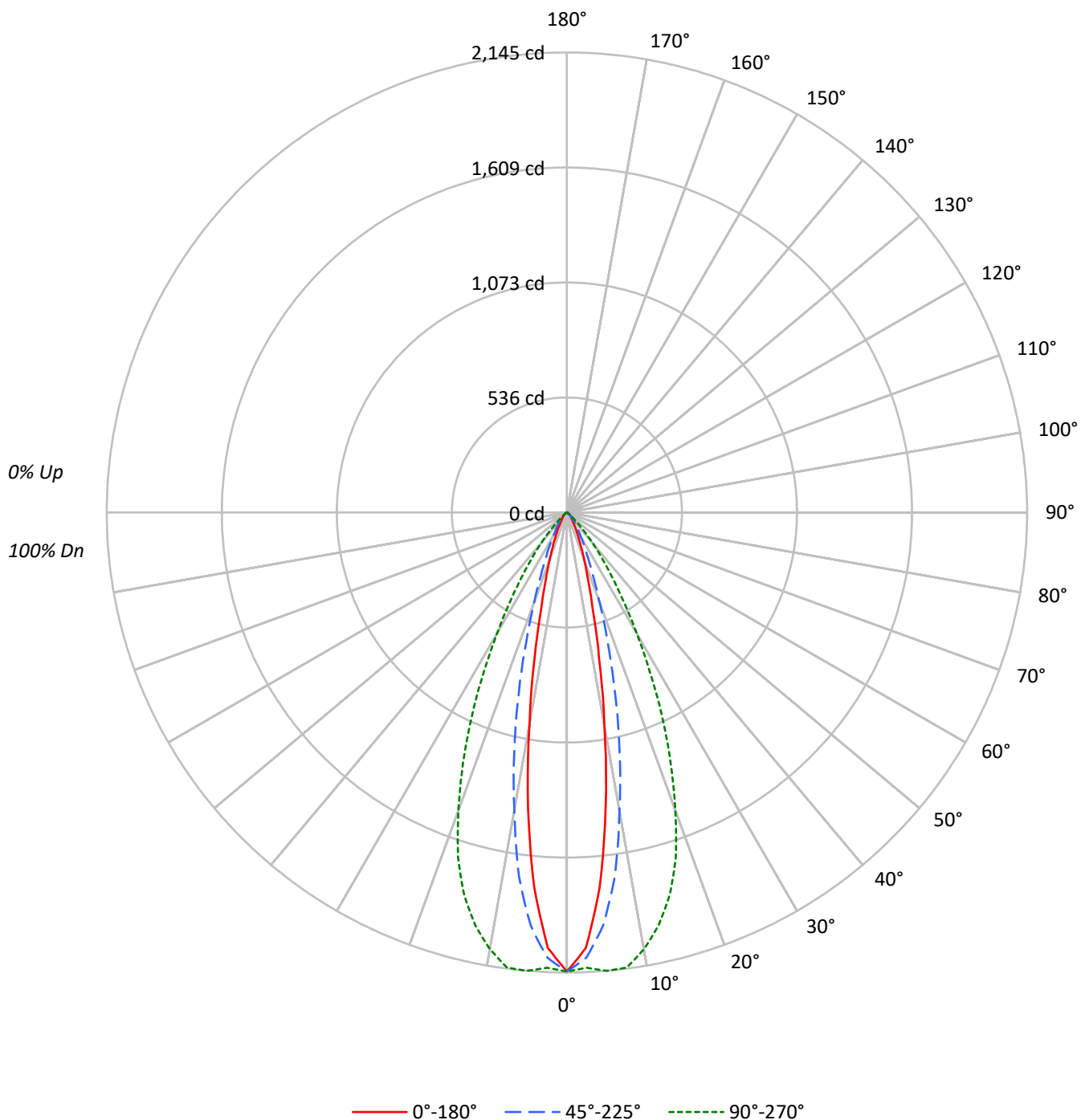
Lumens per Lamp: N/A
Luminaire Lumens: 769.3 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	1055794	1055794	1055794
5°	868018	957707	1062452
10°	503828	707724	1035861
15°	234748	440791	943997
20°	123696	232376	775881
25°	68481	125803	572290
30°	40163	73717	370124
35°	25778	49447	219291
40°	20094	33361	121852
45°	17443	19955	54143
50°	15734	13662	19879
55°	10752	9978	9204
60°	7894	7006	7006
65°	6304	5253	6304
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: 54143 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	22.1
10°-20°	279.0	36.3
20°-30°	186.1	24.2
30°-40°	83.9	10.9
40°-50°	30.7	4.0
50°-60°	10.7	1.4
60°-70°	5.0	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°	635.5	82.6
0°-40°	719.4	93.5
0°-60°	760.8	98.9
0°-90°	769.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	769.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2140	2140	2140	2140	2140	
5°	1753	1807	1934	2075	2145	143
15°	460	540	863	1458	1848	138
25°	126	146	231	630	1051	61
35°	43	48	82	178	364	28
45°	25	25	29	45	78	20
55°	12	12	12	10	11	12
65°	5	5	4	4	5	5
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°	2140.0	2140.0	2140.0	2140.0	2140.0
2.5°	2032.0	2053.4	2078.4	2104.3	2124.8
5°	1752.7	1807.1	1933.8	2074.8	2145.3
7.5°	1385.9	1466.2	1712.5	1991.0	2140.0
10°	1005.7	1108.4	1412.7	1845.5	2067.7
12.5°	691.6	788.0	1133.4	1661.7	1972.2
15°	459.6	539.9	863.0	1458.2	1848.2
17.5°	323.9	378.4	627.4	1236.0	1688.4
20°	235.6	272.2	442.6	1018.2	1477.8
22.5°	171.3	199.0	315.0	813.9	1264.5
25°	125.8	146.4	231.1	630.0	1051.3
27.5°	93.7	109.8	173.1	478.3	838.0
30°	70.5	83.9	129.4	352.5	649.7
32.5°	54.4	63.4	99.1	251.7	491.7
35°	42.8	48.2	82.1	177.6	364.1
37.5°	35.7	39.3	67.8	124.0	266.8
40°	31.2	33.9	51.8	88.3	189.2
42.5°	27.7	29.4	37.5	63.4	123.2
45°	25.0	25.0	28.6	44.6	77.6
47.5°	23.2	20.5	22.3	31.2	45.5
50°	20.5	17.0	17.8	21.4	25.9
52.5°	16.1	14.3	14.3	14.3	15.2
55°	12.5	11.6	11.6	9.8	10.7
57.5°	9.8	9.8	8.9	8.0	8.9
60°	8.0	8.0	7.1	6.2	7.1
62.5°	6.2	6.2	5.4	5.4	6.2
65°	5.4	5.4	4.5	4.5	5.4
67.5°	4.5	4.5	4.5	3.6	4.5
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)