

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: P1178942

Luminaire Tested: LDA2B109035R2050D010 2LBD1LI

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178942
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 2LBD1LI
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

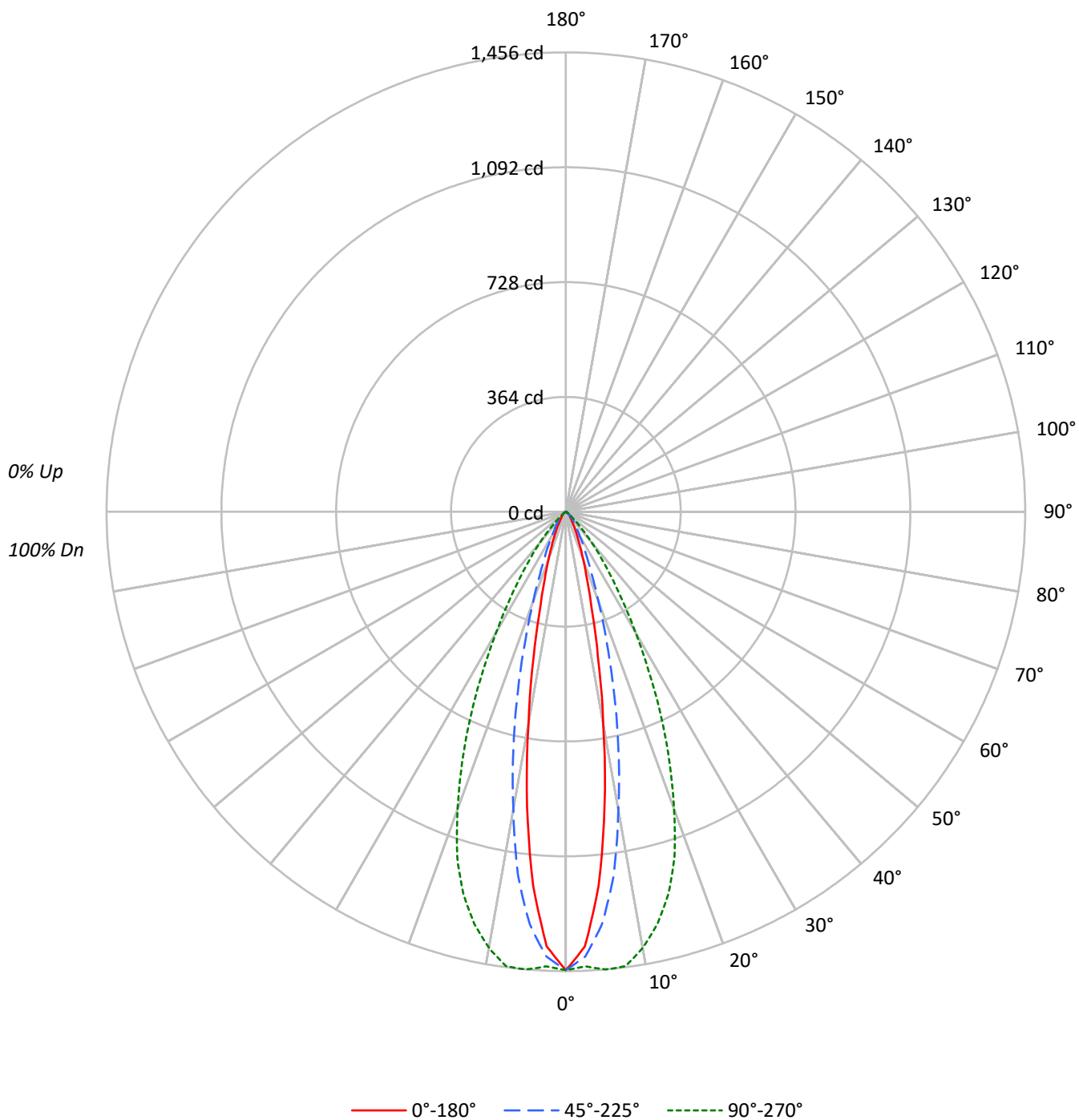
Lumens per Lamp: N/A
Luminaire Lumens: 522.1 lumens
Efficiency: N/A
Efficacy: 52.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	63		69	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	716707	716707	716707
5°	589244	650159	721277
10°	342014	480433	703215
15°	159359	299207	640807
20°	83951	157770	526705
25°	46489	85411	388459
30°	27288	50018	251231
35°	17526	33547	148884
40°	13654	22606	82694
45°	11861	13536	36770
50°	10669	9287	13509
55°	7311	6795	6279
60°	5427	4736	4736
65°	4203	3502	4203
70°	3462	3462	3462
75°	3431	3431	3431
80°	3409	3409	3409
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 36770 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	22.2
10°-20°	189.4	36.3
20°-30°	126.3	24.2
30°-40°	56.9	10.9
40°-50°	20.8	4.0
50°-60°	7.3	1.4
60°-70°	3.4	0.6
70°-80°	1.8	0.3
80°-90°	0.5	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°	431.4	82.6
0°-40°	488.3	93.5
0°-60°	516.5	98.9
0°-90°	522.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	522.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1190	1227	1313	1408	1456	97
15°	312	366	586	990	1255	93
25°	85	99	157	428	714	41
35°	29	33	56	121	247	19
45°	17	17	19	30	53	13
55°	8	8	8	7	7	8
65°	4	4	3	3	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.7	1452.7	1452.7	1452.7	1452.7
2.5°	1379.4	1394.0	1410.9	1428.5	1442.4
5°	1189.8	1226.8	1312.8	1408.5	1456.4
7.5°	940.8	995.3	1162.5	1351.6	1452.7
10°	682.7	752.4	959.0	1252.8	1403.7
12.5°	469.5	534.9	769.4	1128.0	1338.8
15°	312.0	366.5	585.8	989.9	1254.6
17.5°	219.9	256.9	425.9	839.0	1146.2
20°	159.9	184.8	300.5	691.2	1003.2
22.5°	116.3	135.1	213.8	552.5	858.4
25°	85.4	99.4	156.9	427.7	713.6
27.5°	63.6	74.5	117.5	324.7	568.9
30°	47.9	56.9	87.8	239.3	441.0
32.5°	37.0	43.0	67.2	170.8	333.8
35°	29.1	32.7	55.7	120.6	247.2
37.5°	24.2	26.7	46.0	84.2	181.1
40°	21.2	23.0	35.1	60.0	128.4
42.5°	18.8	20.0	25.4	43.0	83.6
45°	17.0	17.0	19.4	30.3	52.7
47.5°	15.8	13.9	15.1	21.2	30.9
50°	13.9	11.5	12.1	14.5	17.6
52.5°	10.9	9.7	9.7	9.7	10.3
55°	8.5	7.9	7.9	6.7	7.3
57.5°	6.7	6.7	6.1	5.5	6.1
60°	5.5	5.5	4.8	4.2	4.8
62.5°	4.2	4.2	3.6	3.6	4.2
65°	3.6	3.6	3.0	3.0	3.6
67.5°	3.0	3.0	3.0	2.4	3.0
70°	2.4	2.4	2.4	2.4	2.4
72.5°	1.8	1.8	2.4	1.8	1.8
75°	1.8	1.8	1.8	1.8	1.8
77.5°	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6
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)