

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: P1178601

Luminaire Tested: LDA2B059730R2050D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178601
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: LDA2B059730R2050D010 2LBDC1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

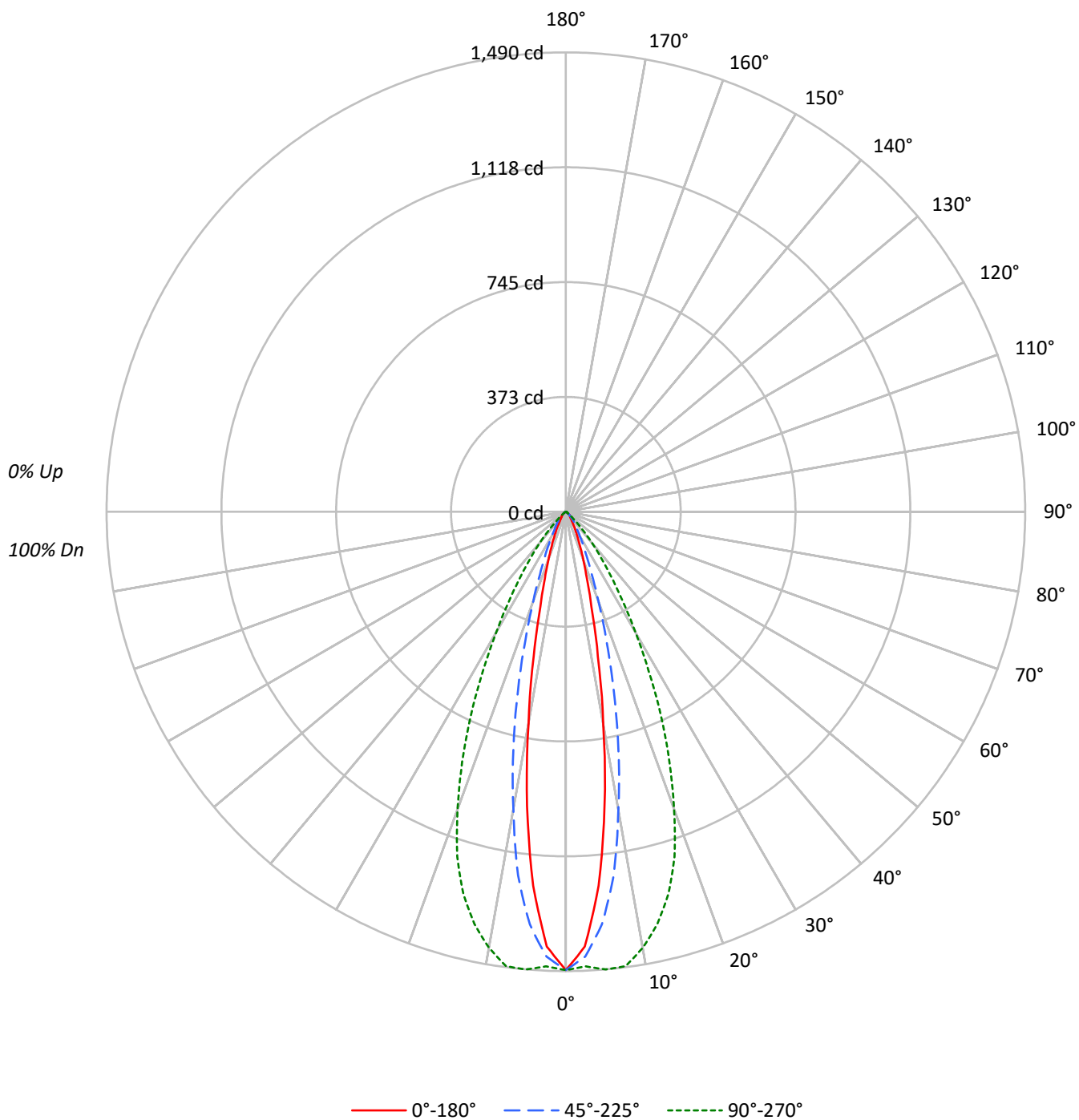
Lumens per Lamp: N/A
Luminaire Lumens: 534.4 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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°	733382	733382	733382
5°	602962	665264	738016
10°	349980	491604	719547
15°	163036	306153	655721
20°	85947	161445	538990
25°	47577	87425	397495
30°	27915	51215	257099
35°	17948	34330	152318
40°	13976	23185	84627
45°	12140	13815	37607
50°	10976	9517	13816
55°	7483	6967	6365
60°	5526	4934	4934
65°	4319	3619	4319
70°	3606	3606	3606
75°	3622	3622	3622
80°	3409	3409	3409
85°	3396	3396	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 37607 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	22.1
10°-20°	193.8	36.3
20°-30°	129.3	24.2
30°-40°	58.3	10.9
40°-50°	21.3	4.0
50°-60°	7.5	1.4
60°-70°	3.5	0.7
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°	441.4	82.6
0°-40°	499.7	93.5
0°-60°	528.5	98.9
0°-90°	534.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	534.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1218	1255	1343	1441	1490	99
15°	319	375	599	1013	1284	96
25°	87	102	161	438	730	42
35°	30	34	57	123	253	20
45°	17	17	20	31	54	14
55°	9	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°	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1411.5	1426.4	1443.8	1461.7	1476.0
5°	1217.5	1255.3	1343.3	1441.3	1490.2
7.5°	962.7	1018.5	1189.6	1383.0	1486.5
10°	698.6	769.9	981.3	1282.0	1436.3
12.5°	480.4	547.4	787.3	1154.3	1370.0
15°	319.2	375.0	599.4	1012.9	1283.8
17.5°	225.0	262.8	435.8	858.6	1172.9
20°	163.7	189.1	307.5	707.3	1026.6
22.5°	119.0	138.2	218.8	565.4	878.4
25°	87.4	101.7	160.6	437.7	730.2
27.5°	65.1	76.2	120.3	332.3	582.1
30°	49.0	58.3	89.9	244.9	451.3
32.5°	37.8	44.0	68.8	174.8	341.6
35°	29.8	33.5	57.0	123.4	252.9
37.5°	24.8	27.3	47.1	86.2	185.4
40°	21.7	23.6	36.0	61.4	131.4
42.5°	19.2	20.5	26.0	44.0	85.5
45°	17.4	17.4	19.8	31.0	53.9
47.5°	16.1	14.3	15.5	21.7	31.6
50°	14.3	11.8	12.4	14.9	18.0
52.5°	11.2	9.9	9.9	9.9	10.5
55°	8.7	8.1	8.1	6.8	7.4
57.5°	6.8	6.8	6.2	5.6	6.2
60°	5.6	5.6	5.0	4.3	5.0
62.5°	4.3	4.3	3.7	3.7	4.3
65°	3.7	3.7	3.1	3.1	3.7
67.5°	3.1	3.1	3.1	2.5	3.1
70°	2.5	2.5	2.5	2.5	2.5
72.5°	1.9	1.9	2.5	1.9	1.9
75°	1.9	1.9	1.9	1.9	1.9
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)