

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: P1178394

Luminaire Tested: LDA2B059030R2040D010 2LBDC1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B059030R2040D010 2LBDC1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

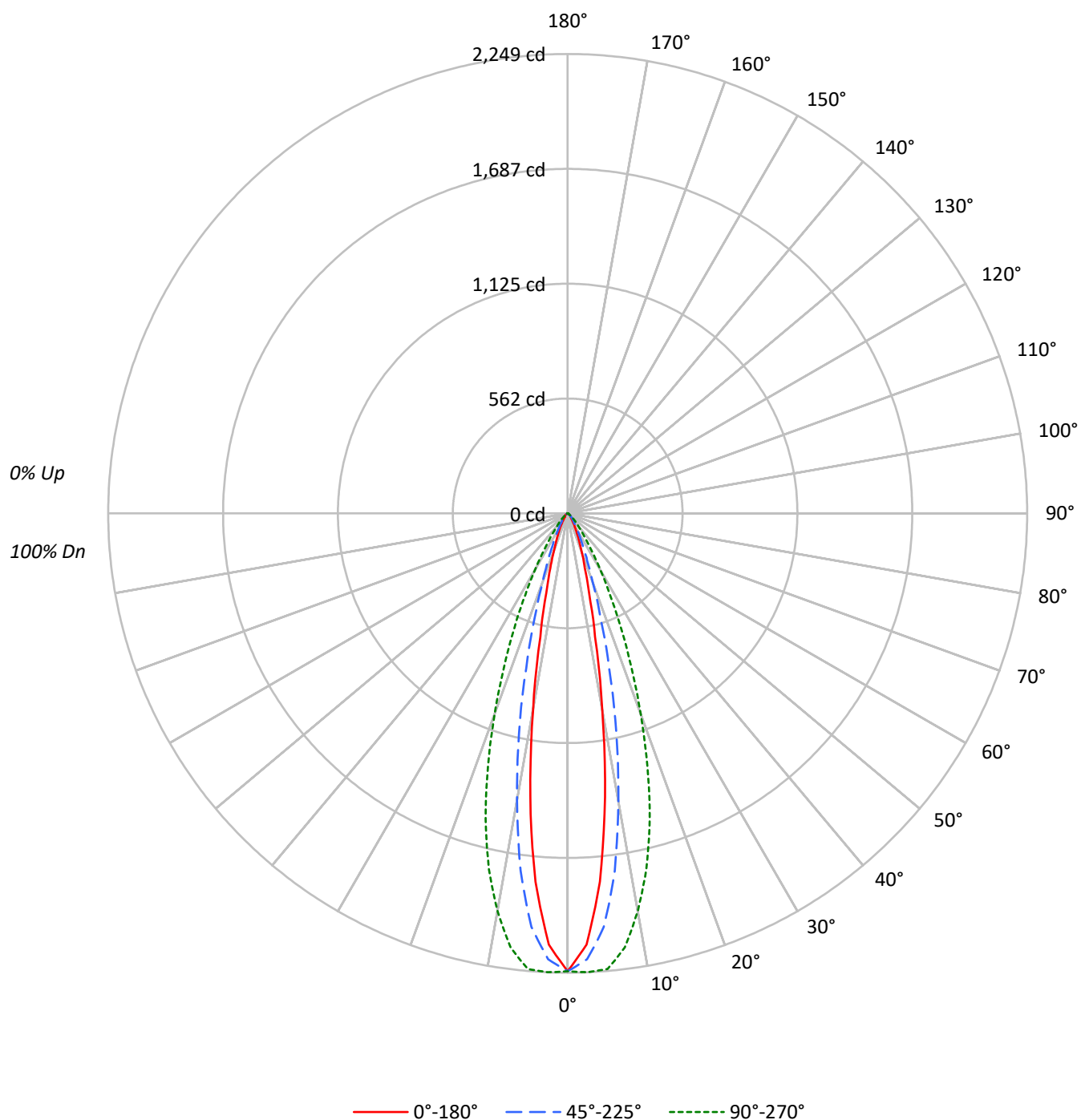
Lumens per Lamp: N/A
Luminaire Lumens: 631.7 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	97	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	92	92	91
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	88	88	87
4	102	95	91	88	100	94	90	87	92	89	86	90	87	85	89	86	84	84	84	83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	81	81	79
6	94	87	83	79	93	87	82	79	85	81	78	84	80	78	83	80	77	77	77	76
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	74	74	73
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	72	72	70
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	69	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	67	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1105772	1105772	1105772
5°	896297	1006687	1108658
10°	487296	714738	989972
15°	206094	401104	792453
20°	105215	188589	547916
25°	58247	96461	333968
30°	32643	53607	182128
35°	18912	32463	92812
40°	14040	24602	51394
45°	12350	16675	30421
50°	13048	10976	16195
55°	9376	7655	8774
60°	6019	5427	5427
65°	4786	4786	4786
70°	3895	3895	3895
75°	3812	3812	3812
80°	3978	3978	3978
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 30421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	27.6
10°-20°	247.0	39.1
20°-30°	127.2	20.1
30°-40°	46.8	7.4
40°-50°	20.6	3.3
50°-60°	9.0	1.4
60°-70°	3.9	0.6
70°-80°	2.0	0.3
80°-90°	0.6	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°	548.8	86.9
0°-40°	595.6	94.3
0°-60°	625.2	99.0
0°-90°	631.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	631.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2241	2241	2241	2241	2241	
5°	1810	1871	2033	2176	2239	146
15°	404	469	785	1310	1552	123
25°	107	120	177	407	614	51
35°	31	36	54	94	154	21
45°	18	20	24	29	44	14
55°	11	10	9	10	10	10
65°	4	4	4	3	4	4
75°	2	2	2	2	2	2
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°	2241.3	2241.3	2241.3	2241.3	2241.3
2.5°	2113.1	2138.4	2185.4	2230.4	2248.8
5°	1809.8	1871.2	2032.7	2176.5	2238.6
7.5°	1401.5	1502.4	1764.1	2033.4	2143.8
10°	972.7	1075.0	1426.7	1813.9	1976.1
12.5°	620.3	719.8	1099.5	1570.5	1781.2
15°	403.5	469.0	785.3	1310.1	1551.5
17.5°	280.2	326.5	534.4	1034.1	1297.2
20°	200.4	233.1	359.2	788.7	1043.6
22.5°	145.2	167.7	249.5	576.0	811.2
25°	107.0	120.0	177.2	406.9	613.5
27.5°	79.1	87.3	128.2	280.8	448.5
30°	57.3	64.1	94.1	192.9	319.7
32.5°	41.6	47.7	70.2	133.6	222.9
35°	31.4	36.1	53.9	94.1	154.1
37.5°	25.9	28.6	44.3	68.2	109.1
40°	21.8	24.5	38.2	50.4	79.8
42.5°	19.1	22.5	31.4	37.5	60.0
45°	17.7	20.4	23.9	28.6	43.6
47.5°	17.7	17.0	18.4	21.8	30.7
50°	17.0	14.3	14.3	17.0	21.1
52.5°	14.3	11.6	11.6	12.3	14.3
55°	10.9	9.5	8.9	9.5	10.2
57.5°	8.2	8.2	7.5	6.8	7.5
60°	6.1	6.1	5.5	5.5	5.5
62.5°	4.8	4.8	4.8	4.1	4.8
65°	4.1	4.1	4.1	3.4	4.1
67.5°	3.4	3.4	2.7	3.4	3.4
70°	2.7	2.7	2.7	2.7	2.7
72.5°	2.0	2.0	2.0	2.0	2.0
75°	2.0	2.0	2.0	2.0	2.0
77.5°	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	0.7	0.7	0.7
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)