

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: P1178486

Luminaire Tested: LDA2B059040R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178486
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: LDA2B059040R2050D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

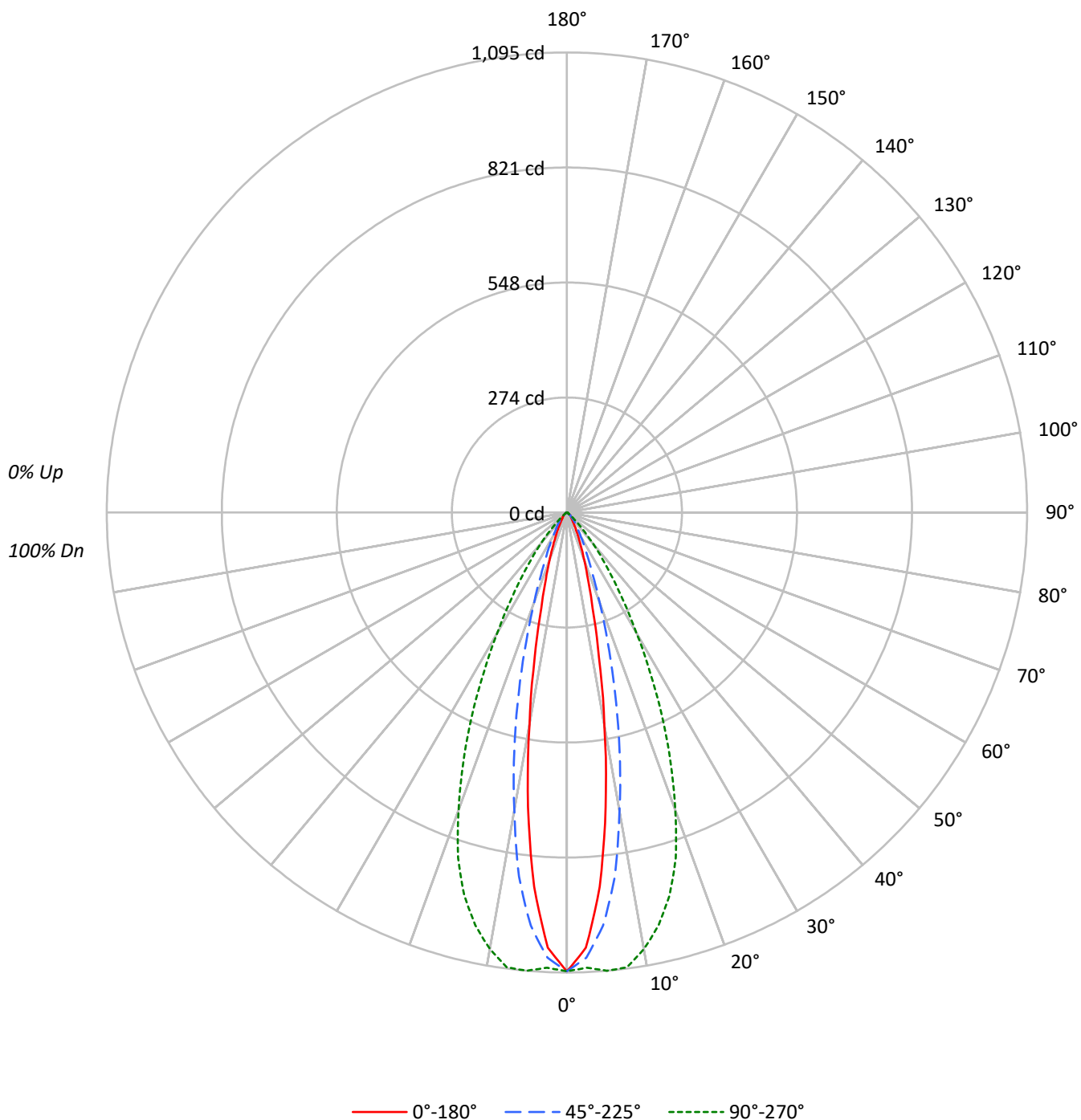
Lumens per Lamp: N/A
Luminaire Lumens: 392.6 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	538751	538751	538751
5°	442948	488709	542196
10°	257099	361151	528626
15°	119775	224941	481703
20°	63108	118603	395921
25°	34948	64181	292052
30°	20509	37599	188851
35°	13190	25236	111904
40°	10240	17003	62150
45°	8931	10187	27630
50°	8059	6985	10131
55°	5505	5075	4731
60°	4046	3552	3552
65°	3152	2685	3152
70°	2596	2596	2596
75°	2669	2669	2669
80°	2557	2557	2557
85°	2830	2830	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 27630 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	22.1
10°-20°	142.4	36.3
20°-30°	95.0	24.2
30°-40°	42.8	10.9
40°-50°	15.7	4.0
50°-60°	5.5	1.4
60°-70°	2.6	0.7
70°-80°	1.4	0.3
80°-90°	0.4	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°	324.3	82.6
0°-40°	367.1	93.5
0°-60°	388.2	98.9
0°-90°	392.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	392.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	894	922	987	1059	1095	73
15°	234	276	440	744	943	70
25°	64	75	118	322	536	31
35°	22	25	42	91	186	14
45°	13	13	15	23	40	10
55°	6	6	6	5	6	6
65°	3	3	2	2	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1092.0	1092.0	1092.0	1092.0	1092.0
2.5°	1036.9	1047.9	1060.6	1073.8	1084.3
5°	894.4	922.2	986.8	1058.8	1094.8
7.5°	707.2	748.2	873.9	1016.0	1092.0
10°	513.2	565.6	720.9	941.8	1055.2
12.5°	352.9	402.1	578.4	848.0	1006.4
15°	234.5	275.5	440.4	744.1	943.1
17.5°	165.3	193.1	320.1	630.7	861.6
20°	120.2	138.9	225.9	519.6	754.1
22.5°	87.4	101.6	160.8	415.3	645.3
25°	64.2	74.7	117.9	321.5	536.5
27.5°	47.8	56.0	88.3	244.1	427.6
30°	36.0	42.8	66.0	179.9	331.5
32.5°	27.8	32.3	50.5	128.4	250.9
35°	21.9	24.6	41.9	90.6	185.8
37.5°	18.2	20.0	34.6	63.3	136.2
40°	15.9	17.3	26.4	45.1	96.5
42.5°	14.1	15.0	19.1	32.3	62.8
45°	12.8	12.8	14.6	22.8	39.6
47.5°	11.8	10.5	11.4	15.9	23.2
50°	10.5	8.7	9.1	10.9	13.2
52.5°	8.2	7.3	7.3	7.3	7.7
55°	6.4	5.9	5.9	5.0	5.5
57.5°	5.0	5.0	4.6	4.1	4.6
60°	4.1	4.1	3.6	3.2	3.6
62.5°	3.2	3.2	2.7	2.7	3.2
65°	2.7	2.7	2.3	2.3	2.7
67.5°	2.3	2.3	2.3	1.8	2.3
70°	1.8	1.8	1.8	1.8	1.8
72.5°	1.4	1.4	1.8	1.4	1.4
75°	1.4	1.4	1.4	1.4	1.4
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.5	0.5
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)