

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: P1178472

Luminaire Tested: LDA2B059040R2040D010 2LBDC1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178472
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: LDA2B059040R2040D010 2LBDC1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

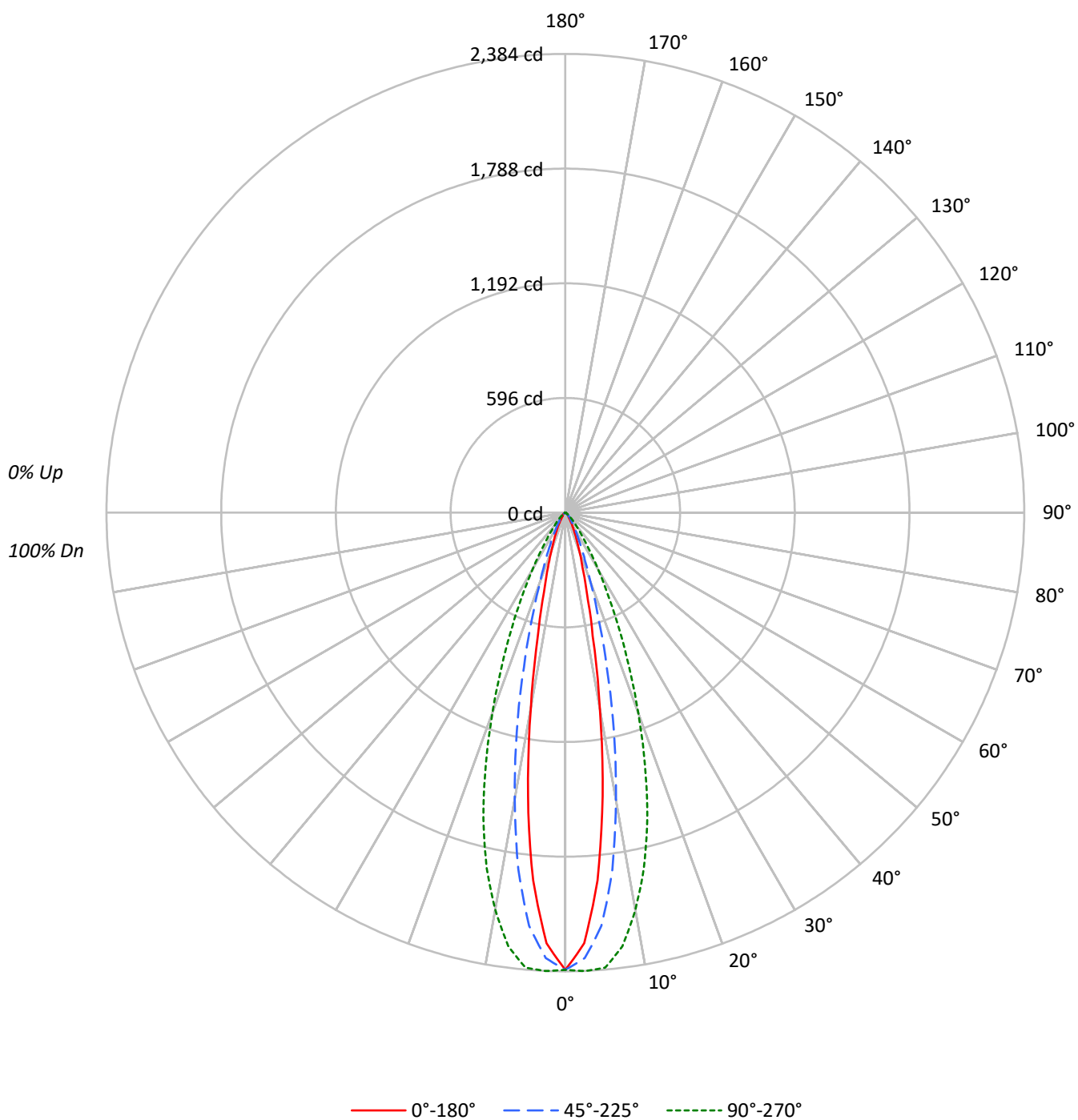
Lumens per Lamp: N/A
Luminaire Lumens: 669.7 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1172376	1172376	1172376
5°	950279	1067305	1175418
10°	516653	757821	1049638
15°	218506	425264	840159
20°	111568	199982	580940
25°	61785	102286	354055
30°	34580	56798	193123
35°	19996	34390	98353
40°	14877	26084	54486
45°	13117	17652	32304
50°	13892	11667	17193
55°	9978	8085	9290
60°	6414	5723	5723
65°	5020	5020	5020
70°	4183	4183	4183
75°	4194	4194	4194
80°	3978	3978	3978
85°	3962	3962	3962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 32304 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.2	27.6
10°-20°	261.8	39.1
20°-30°	134.9	20.1
30°-40°	49.6	7.4
40°-50°	21.8	3.3
50°-60°	9.6	1.4
60°-70°	4.2	0.6
70°-80°	2.1	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°	581.9	86.9
0°-40°	631.5	94.3
0°-60°	662.9	99.0
0°-90°	669.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	669.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2376	2376	2376	2376	2376	
5°	1919	1984	2155	2308	2373	154
15°	428	497	833	1389	1645	131
25°	114	127	188	432	650	54
35°	33	38	57	100	163	23
45°	19	22	25	30	46	15
55°	12	10	9	10	11	11
65°	4	4	4	4	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°	2376.3	2376.3	2376.3	2376.3	2376.3
2.5°	2240.4	2267.2	2317.0	2364.7	2384.3
5°	1918.8	1983.9	2155.1	2307.6	2373.4
7.5°	1485.9	1592.9	1870.4	2155.9	2273.0
10°	1031.3	1139.7	1512.7	1923.2	2095.2
12.5°	657.7	763.2	1165.7	1665.1	1888.5
15°	427.8	497.2	832.6	1389.1	1644.9
17.5°	297.0	346.2	566.6	1096.4	1375.3
20°	212.5	247.2	380.9	836.2	1106.5
22.5°	153.9	177.8	264.5	610.7	860.0
25°	113.5	127.2	187.9	431.5	650.4
27.5°	83.8	92.5	135.9	297.8	475.5
30°	60.7	67.9	99.7	204.5	339.0
32.5°	44.1	50.6	74.4	141.7	236.3
35°	33.2	38.3	57.1	99.7	163.3
37.5°	27.5	30.4	47.0	72.3	115.6
40°	23.1	26.0	40.5	53.5	84.6
42.5°	20.2	23.8	33.2	39.7	63.6
45°	18.8	21.7	25.3	30.4	46.3
47.5°	18.8	18.1	19.5	23.1	32.5
50°	18.1	15.2	15.2	18.1	22.4
52.5°	15.2	12.3	12.3	13.0	15.2
55°	11.6	10.1	9.4	10.1	10.8
57.5°	8.7	8.7	7.9	7.2	7.9
60°	6.5	6.5	5.8	5.8	5.8
62.5°	5.1	5.1	5.1	4.3	5.1
65°	4.3	4.3	4.3	3.6	4.3
67.5°	3.6	3.6	2.9	3.6	3.6
70°	2.9	2.9	2.9	2.9	2.9
72.5°	2.2	2.2	2.2	2.2	2.2
75°	2.2	2.2	2.2	2.2	2.2
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)