

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: P1178170

Luminaire Tested: LDA2B058030R2050D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178170
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: LDA2B058030R2050D010 2LBD1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

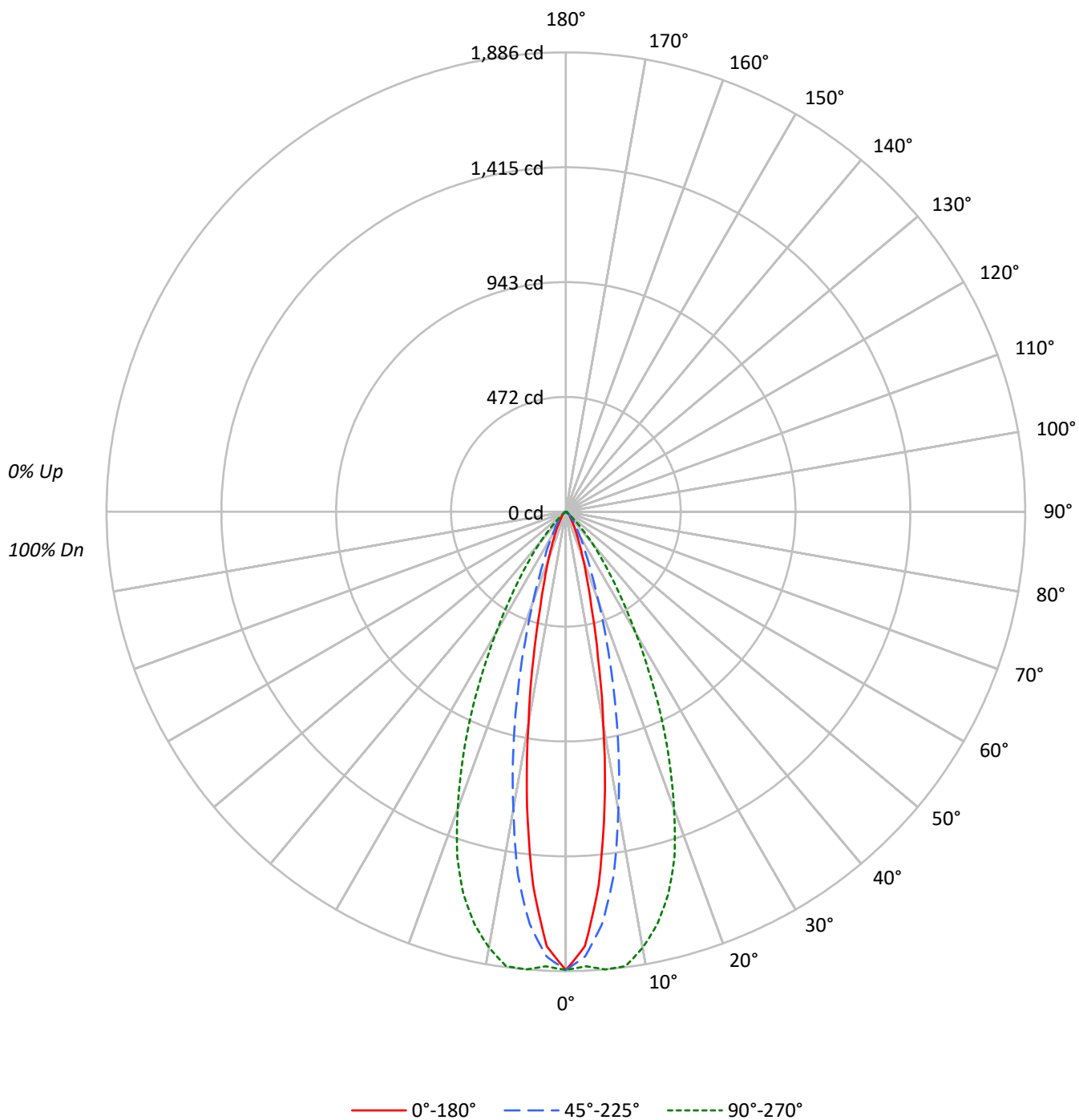
Lumens per Lamp: N/A
Luminaire Lumens: 676.2 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	928063	928063	928063
5°	762977	841869	933936
10°	442910	622108	910518
15°	206349	387416	829790
20°	108733	204287	682007
25°	60207	110615	503047
30°	35320	64773	325347
35°	22706	43485	192731
40°	17711	29304	107104
45°	15350	17513	47584
50°	13816	12050	17423
55°	9462	8774	8085
60°	7006	6216	6216
65°	5487	4553	5487
70°	4472	4472	4472
75°	4575	4575	4575
80°	4546	4546	4546
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 47584 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	22.1
10°-20°	245.2	36.3
20°-30°	163.6	24.2
30°-40°	73.7	10.9
40°-50°	27.0	4.0
50°-60°	9.4	1.4
60°-70°	4.4	0.7
70°-80°	2.4	0.3
80°-90°	0.7	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°	558.6	82.6
0°-40°	632.4	93.5
0°-60°	668.8	98.9
0°-90°	676.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	676.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1881	1881	1881	1881	1881	
5°	1541	1588	1700	1824	1886	126
15°	404	475	758	1282	1625	121
25°	111	129	203	554	924	53
35°	38	42	72	156	320	25
45°	22	22	25	39	68	17
55°	11	10	10	9	9	10
65°	5	5	4	4	5	5
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°	1881.1	1881.1	1881.1	1881.1	1881.1
2.5°	1786.2	1805.0	1826.9	1849.7	1867.7
5°	1540.6	1588.5	1699.9	1823.8	1885.8
7.5°	1218.2	1288.8	1505.3	1750.1	1881.1
10°	884.1	974.3	1241.8	1622.2	1817.5
12.5°	607.9	692.7	996.2	1460.6	1733.6
15°	404.0	474.6	758.5	1281.8	1624.6
17.5°	284.7	332.6	551.5	1086.4	1484.1
20°	207.1	239.3	389.1	895.0	1299.0
22.5°	150.6	174.9	276.9	715.4	1111.5
25°	110.6	128.6	203.2	553.8	924.1
27.5°	82.4	96.5	152.2	420.5	736.6
30°	62.0	73.7	113.7	309.9	571.1
32.5°	47.9	55.7	87.1	221.2	432.2
35°	37.7	42.4	72.2	156.1	320.0
37.5°	31.4	34.5	59.6	109.0	234.5
40°	27.5	29.8	45.5	77.7	166.3
42.5°	24.3	25.9	32.9	55.7	108.3
45°	22.0	22.0	25.1	39.2	68.2
47.5°	20.4	18.0	19.6	27.5	40.0
50°	18.0	14.9	15.7	18.8	22.7
52.5°	14.1	12.6	12.6	12.6	13.3
55°	11.0	10.2	10.2	8.6	9.4
57.5°	8.6	8.6	7.8	7.1	7.8
60°	7.1	7.1	6.3	5.5	6.3
62.5°	5.5	5.5	4.7	4.7	5.5
65°	4.7	4.7	3.9	3.9	4.7
67.5°	3.9	3.9	3.9	3.1	3.9
70°	3.1	3.1	3.1	3.1	3.1
72.5°	2.4	2.4	3.1	2.4	2.4
75°	2.4	2.4	2.4	2.4	2.4
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
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)