

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: P1178277

Luminaire Tested: LDA2B058050R2040D010 2LBDC1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178277
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: LDA2B058050R2040D010 2LBDC1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

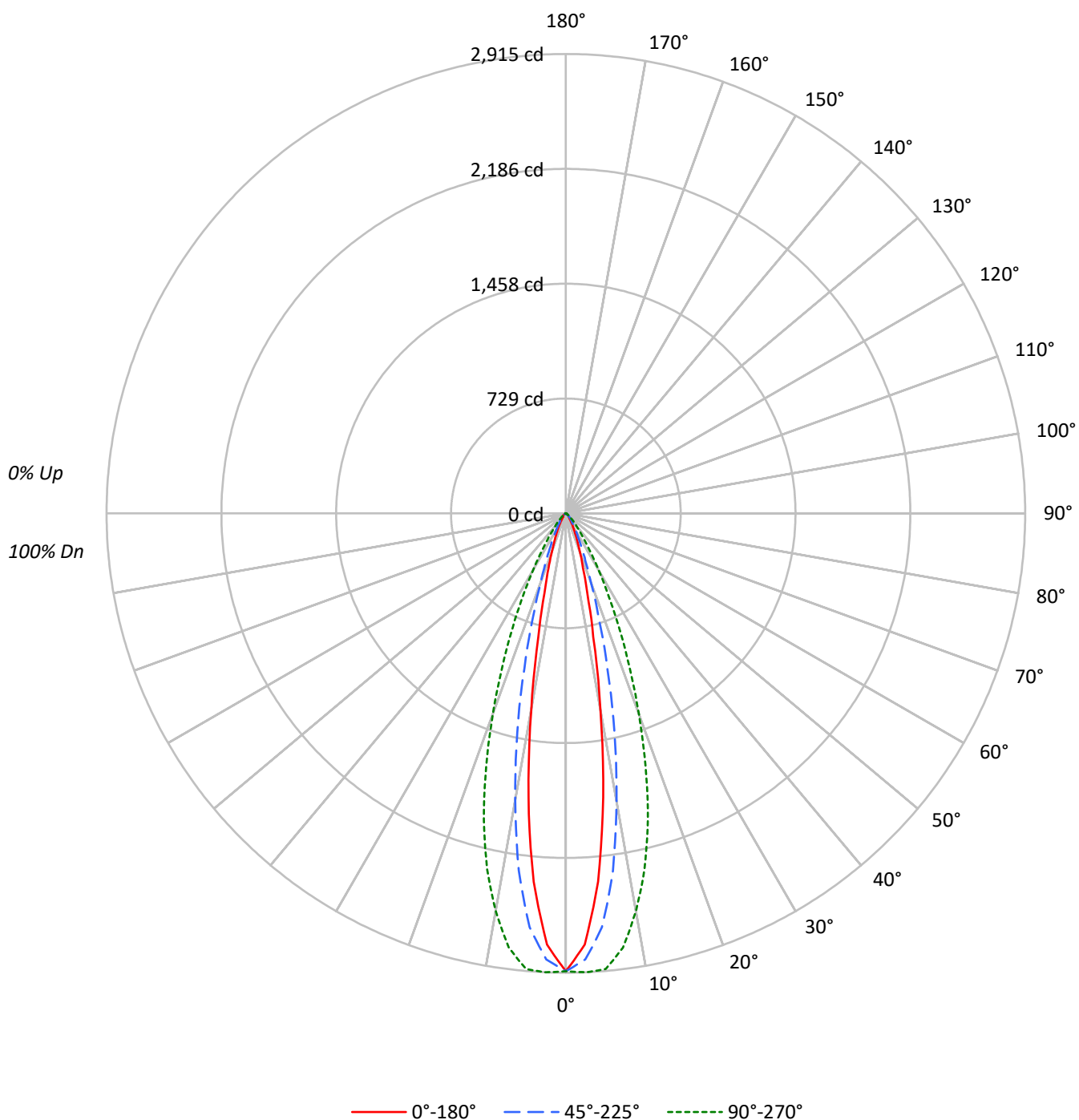
Lumens per Lamp: N/A
Luminaire Lumens: 818.9 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	87	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	94	87	82	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°	1433364	1433364	1433364
5°	1161848	1304974	1437106
10°	631676	926499	1283292
15°	267182	519908	1027201
20°	136401	244504	710253
25°	75503	125041	432933
30°	42271	69445	236078
35°	24453	42039	120276
40°	18226	31880	66594
45°	16048	21560	39491
50°	16963	14276	21030
55°	12128	9892	11440
60°	7894	7006	7006
65°	6187	6187	6187
70°	5049	5049	5049
75°	5147	5147	5147
80°	5114	5114	5114
85°	5095	5095	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 39491 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.4	27.6
10°-20°	320.1	39.1
20°-30°	164.9	20.1
30°-40°	60.7	7.4
40°-50°	26.7	3.3
50°-60°	11.7	1.4
60°-70°	5.1	0.6
70°-80°	2.6	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°	711.4	86.9
0°-40°	772.1	94.3
0°-60°	810.5	99.0
0°-90°	818.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	818.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2905	2905	2905	2905	2905	
5°	2346	2426	2635	2821	2902	189
15°	523	608	1018	1698	2011	160
25°	139	156	230	528	795	67
35°	41	47	70	122	200	28
45°	23	26	31	37	57	19
55°	14	12	12	12	13	13
65°	5	5	5	4	5	5
75°	3	3	3	3	3	3
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°	2905.3	2905.3	2905.3	2905.3	2905.3
2.5°	2739.2	2771.9	2832.9	2891.2	2915.1
5°	2346.0	2425.5	2635.0	2821.4	2901.8
7.5°	1816.7	1947.5	2286.8	2635.8	2779.0
10°	1260.9	1393.5	1849.4	2351.3	2561.6
12.5°	804.1	933.1	1425.3	2035.9	2308.9
15°	523.1	607.9	1017.9	1698.3	2011.1
17.5°	363.2	423.3	692.8	1340.5	1681.5
20°	259.8	302.2	465.7	1022.3	1352.8
22.5°	188.2	217.4	323.4	746.7	1051.5
25°	138.7	155.5	229.7	527.5	795.3
27.5°	102.5	113.1	166.1	364.1	581.4
30°	74.2	83.1	121.9	250.1	414.4
32.5°	53.9	61.9	91.0	173.2	288.9
35°	40.6	46.8	69.8	121.9	199.7
37.5°	33.6	37.1	57.4	88.4	141.4
40°	28.3	31.8	49.5	65.4	103.4
42.5°	24.7	29.2	40.6	48.6	77.8
45°	23.0	26.5	30.9	37.1	56.6
47.5°	23.0	22.1	23.9	28.3	39.8
50°	22.1	18.6	18.6	22.1	27.4
52.5°	18.6	15.0	15.0	15.9	18.6
55°	14.1	12.4	11.5	12.4	13.3
57.5°	10.6	10.6	9.7	8.8	9.7
60°	8.0	8.0	7.1	7.1	7.1
62.5°	6.2	6.2	6.2	5.3	6.2
65°	5.3	5.3	5.3	4.4	5.3
67.5°	4.4	4.4	3.5	4.4	4.4
70°	3.5	3.5	3.5	3.5	3.5
72.5°	2.7	2.7	2.7	2.7	2.7
75°	2.7	2.7	2.7	2.7	2.7
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
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)