

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: P1178237

Luminaire Tested: LDA2B058040R2040D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178237
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: LDA2B058040R2040D010 2LBDC1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

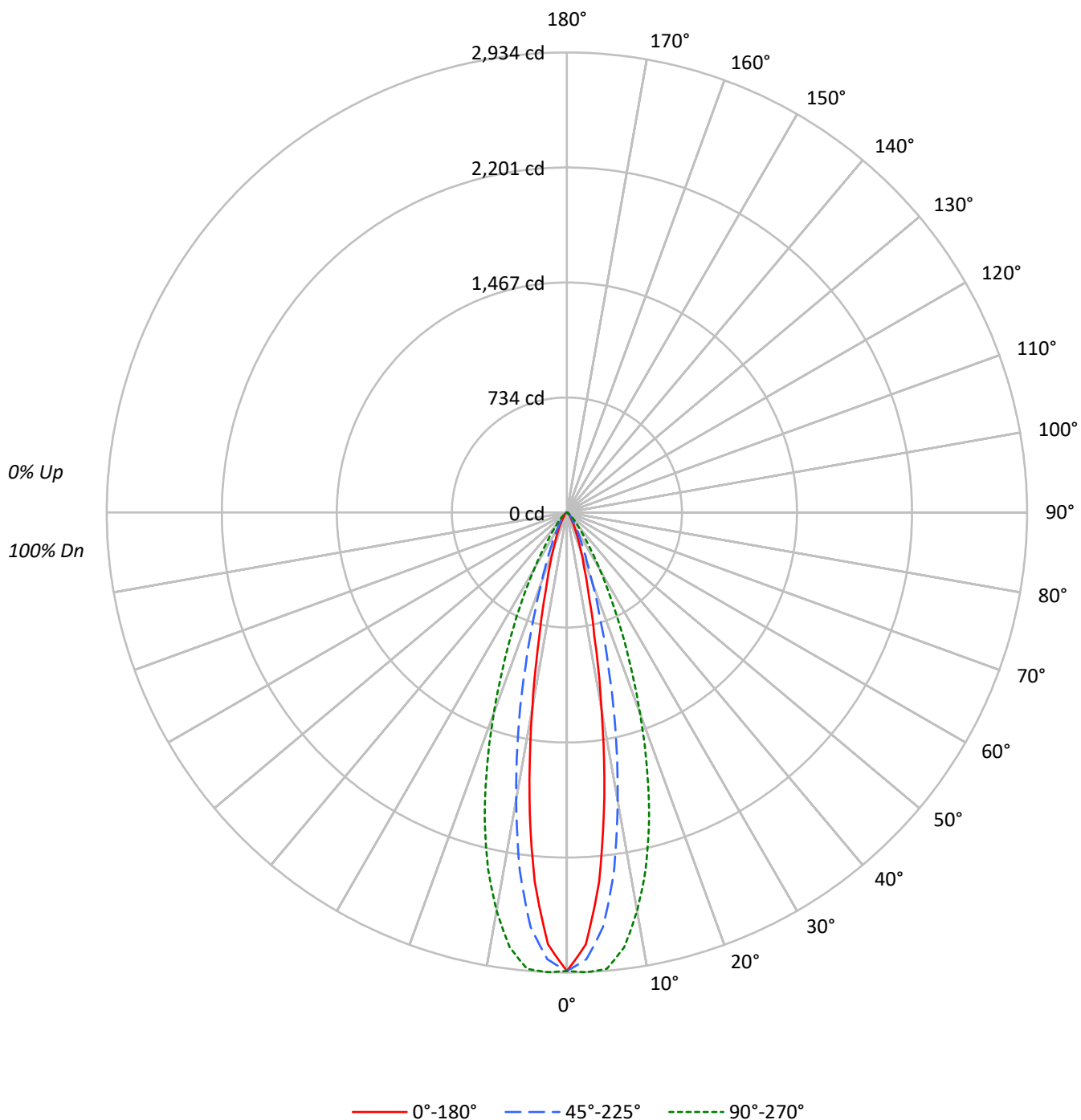
Lumens per Lamp: N/A
Luminaire Lumens: 824.2 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P1178237

CATALOG NUMBER: LDA2B058040R2040D010 2LBDC1MB

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	87	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°	1442787	1442787	1442787
5°	1169475	1313492	1446516
10°	635835	932611	1291708
15°	268918	523331	1033943
20°	137294	246079	714926
25°	75993	125857	435764
30°	42555	69900	237616
35°	24633	42341	121059
40°	18355	32073	67044
45°	16117	21699	39700
50°	17039	14353	21184
55°	12214	9978	11440
60°	7894	7006	7006
65°	6187	6187	6187
70°	5193	5193	5193
75°	5147	5147	5147
80°	5114	5114	5114
85°	5095	5095	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 39700 cd/sqm

TEST NUMBER: P1178237

CATALOG NUMBER: LDA2B058040R2040D010 2LBDC1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	27.6
10°-20°	322.2	39.1
20°-30°	166.0	20.1
30°-40°	61.1	7.4
40°-50°	26.8	3.3
50°-60°	11.8	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°	716.1	86.9
0°-40°	777.1	94.3
0°-60°	815.8	99.0
0°-90°	824.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	824.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2924	2924	2924	2924	2924	
5°	2361	2442	2652	2840	2921	190
15°	526	612	1025	1710	2024	161
25°	140	156	231	531	800	67
35°	41	47	70	123	201	28
45°	23	27	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°	2924.4	2924.4	2924.4	2924.4	2924.4
2.5°	2757.2	2790.1	2851.5	2910.2	2934.2
5°	2361.4	2441.5	2652.2	2839.9	2920.8
7.5°	1828.6	1960.3	2301.8	2653.1	2797.2
10°	1269.2	1402.6	1861.6	2366.7	2578.4
12.5°	809.4	939.2	1434.6	2049.2	2324.0
15°	526.5	611.9	1024.6	1709.5	2024.3
17.5°	365.6	426.0	697.3	1349.2	1692.6
20°	261.5	304.2	468.7	1029.1	1361.7
22.5°	189.4	218.8	325.5	751.6	1058.4
25°	139.6	156.5	231.2	531.0	800.5
27.5°	103.2	113.8	167.2	366.4	585.2
30°	74.7	83.6	122.7	251.7	417.1
32.5°	54.3	62.3	91.6	174.3	290.8
35°	40.9	47.1	70.3	122.7	201.0
37.5°	33.8	37.4	57.8	88.9	142.3
40°	28.5	32.0	49.8	65.8	104.1
42.5°	24.9	29.4	40.9	48.9	78.3
45°	23.1	26.7	31.1	37.4	56.9
47.5°	23.1	22.2	24.0	28.5	40.0
50°	22.2	18.7	18.7	22.2	27.6
52.5°	18.7	15.1	15.1	16.0	18.7
55°	14.2	12.5	11.6	12.5	13.3
57.5°	10.7	10.7	9.8	8.9	9.8
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	3.6	4.4	4.4
70°	3.6	3.6	3.6	3.6	3.6
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)