

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: P1178200

Luminaire Tested: LDA2B058035R2040D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178200
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: LDA2B058035R2040D010 2LBDC1MB
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

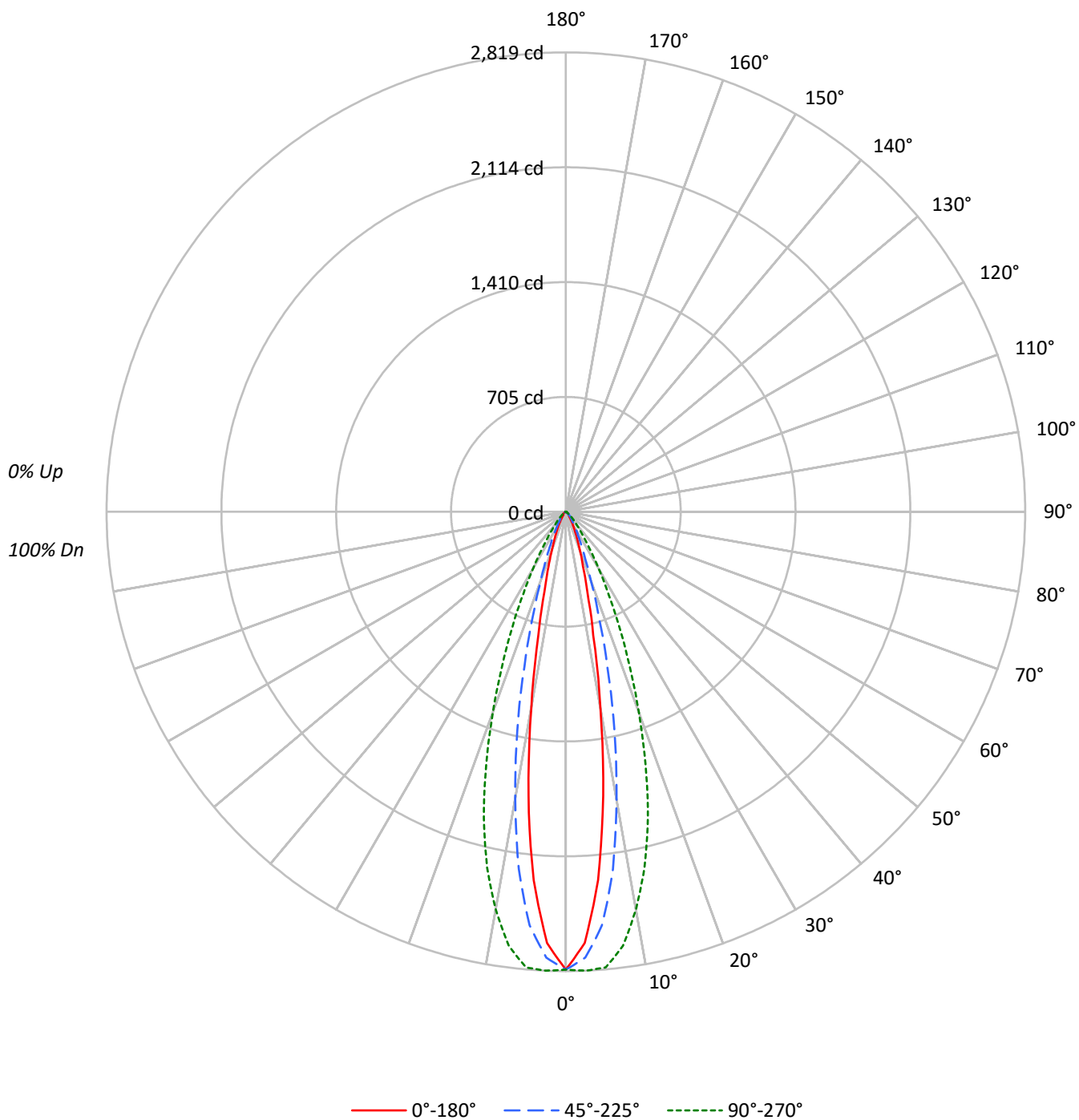
Lumens per Lamp: N/A
Luminaire Lumens: 791.9 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	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°	1386100	1386100	1386100
5°	1123516	1261888	1389711
10°	610836	895940	1240959
15°	258345	502747	993337
20°	131886	236419	686837
25°	73054	120958	418616
30°	40903	67166	228273
35°	23670	40654	116301
40°	17582	30849	64404
45°	15489	20862	38165
50°	16425	13739	20340
55°	11784	9548	11010
60°	7598	6710	6710
65°	5954	5954	5954
70°	4904	4904	4904
75°	4956	4956	4956
80°	4830	4830	4830
85°	5095	5095	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 38165 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	27.6
10°-20°	309.6	39.1
20°-30°	159.5	20.1
30°-40°	58.7	7.4
40°-50°	25.8	3.3
50°-60°	11.3	1.4
60°-70°	4.9	0.6
70°-80°	2.5	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°	687.9	86.9
0°-40°	746.6	94.3
0°-60°	783.7	99.0
0°-90°	791.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2810	2810	2810	2810	2810	
5°	2269	2346	2548	2728	2806	183
15°	506	588	984	1642	1945	155
25°	134	150	222	510	769	64
35°	39	45	68	118	193	27
45°	22	26	30	36	55	18
55°	14	12	11	12	13	13
65°	5	5	5	4	5	5
75°	3	3	3	3	3	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°	2809.5	2809.5	2809.5	2809.5	2809.5
2.5°	2648.9	2680.5	2739.4	2795.8	2818.9
5°	2268.6	2345.5	2548.0	2728.3	2806.1
7.5°	1756.8	1883.3	2211.4	2548.9	2687.3
10°	1219.3	1347.5	1788.4	2273.7	2477.1
12.5°	777.6	902.3	1378.3	1968.7	2232.7
15°	505.8	587.9	984.3	1642.3	1944.8
17.5°	351.2	409.3	669.9	1296.2	1626.1
20°	251.2	292.2	450.3	988.6	1308.2
22.5°	182.0	210.2	312.7	722.0	1016.8
25°	134.2	150.4	222.2	510.1	769.0
27.5°	99.1	109.4	160.6	352.0	562.2
30°	71.8	80.3	117.9	241.8	400.7
32.5°	52.1	59.8	88.0	167.5	279.4
35°	39.3	45.3	67.5	117.9	193.1
37.5°	32.5	35.9	55.5	85.4	136.7
40°	27.3	30.8	47.9	63.2	100.0
42.5°	23.9	28.2	39.3	47.0	75.2
45°	22.2	25.6	29.9	35.9	54.7
47.5°	22.2	21.4	23.1	27.3	38.5
50°	21.4	17.9	17.9	21.4	26.5
52.5°	17.9	14.5	14.5	15.4	17.9
55°	13.7	12.0	11.1	12.0	12.8
57.5°	10.3	10.3	9.4	8.5	9.4
60°	7.7	7.7	6.8	6.8	6.8
62.5°	6.0	6.0	6.0	5.1	6.0
65°	5.1	5.1	5.1	4.3	5.1
67.5°	4.3	4.3	3.4	4.3	4.3
70°	3.4	3.4	3.4	3.4	3.4
72.5°	2.6	2.6	2.6	2.6	2.6
75°	2.6	2.6	2.6	2.6	2.6
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7
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)