

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: P1179245

Luminaire Tested: LDA2B158040R2040D010 2LBDC1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179245
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: LDA2B158040R2040D010 2LBDC1MB
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

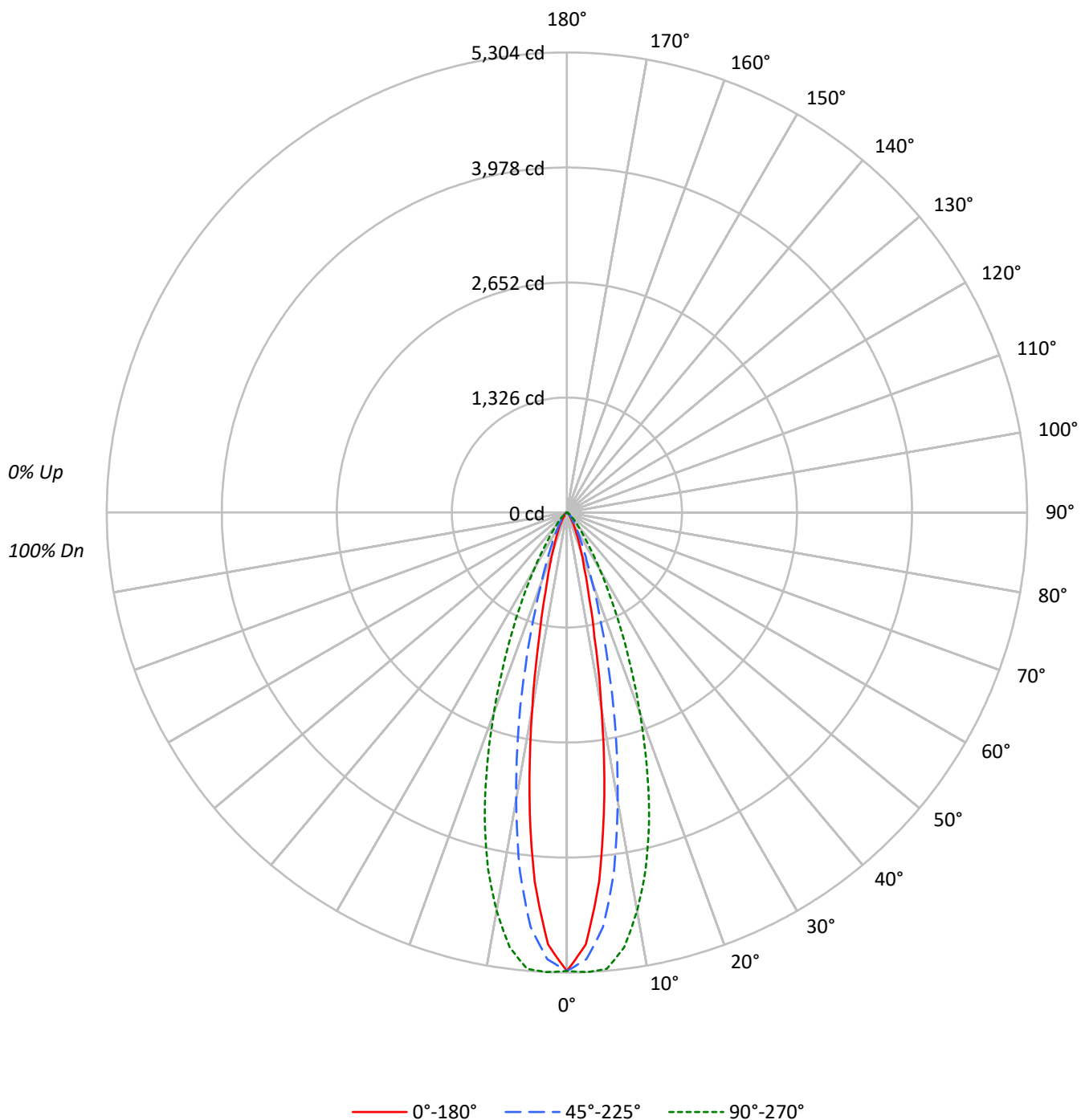
Lumens per Lamp: N/A
Luminaire Lumens: 1489.9 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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	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°	2608108	2608108	2608108
5°	2114058	2374409	2614901
10°	1149382	1685823	2335034
15°	486147	946040	1869045
20°	248179	444853	1292348
25°	137398	227544	787695
30°	76964	126413	429600
35°	44569	76490	218870
40°	33104	57963	121144
45°	29165	39282	71795
50°	30855	25943	38223
55°	22106	17977	20730
60°	14307	12729	12729
65°	11207	11207	11207
70°	9232	9232	9232
75°	9150	9150	9150
80°	9092	9092	9092
85°	9057	9057	9057

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 71795 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.9	27.6
10°-20°	582.5	39.1
20°-30°	300.1	20.1
30°-40°	110.4	7.4
40°-50°	48.5	3.3
50°-60°	21.3	1.4
60°-70°	9.3	0.6
70°-80°	4.6	0.3
80°-90°	1.3	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°	1294.5	86.9
0°-40°	1404.9	94.3
0°-60°	1474.6	99.0
0°-90°	1489.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1489.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5286	5286	5286	5286	5286	
5°	4269	4413	4794	5134	5280	343
15°	952	1106	1852	3090	3659	291
25°	252	283	418	960	1447	121
35°	74	85	127	222	363	50
45°	42	48	56	68	103	34
55°	26	22	21	22	24	24
65°	10	10	10	8	10	10
75°	5	5	5	5	5	5
85°	2	2	2	2	2	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5286.4	5286.4	5286.4	5286.4	5286.4
2.5°	4984.2	5043.7	5154.6	5260.7	5304.1
5°	4268.7	4413.4	4794.4	5133.7	5280.0
7.5°	3305.6	3543.6	4161.0	4796.1	5056.5
10°	2294.3	2535.5	3365.1	4278.3	4661.0
12.5°	1463.1	1697.8	2593.4	3704.4	4201.2
15°	951.8	1106.2	1852.2	3090.2	3659.3
17.5°	660.8	770.1	1260.5	2439.0	3059.6
20°	472.7	549.9	847.3	1860.2	2461.5
22.5°	342.5	395.5	588.5	1358.6	1913.3
25°	252.4	283.0	418.0	959.9	1447.0
27.5°	186.5	205.8	302.3	662.4	1057.9
30°	135.1	151.1	221.9	455.0	754.1
32.5°	98.1	112.5	165.6	315.1	525.7
35°	74.0	85.2	127.0	221.9	363.4
37.5°	61.1	67.5	104.5	160.8	257.2
40°	51.4	57.9	90.0	119.0	188.1
42.5°	45.0	53.1	74.0	88.4	141.5
45°	41.8	48.2	56.3	67.5	102.9
47.5°	41.8	40.2	43.4	51.4	72.4
50°	40.2	33.8	33.8	40.2	49.8
52.5°	33.8	27.3	27.3	28.9	33.8
55°	25.7	22.5	20.9	22.5	24.1
57.5°	19.3	19.3	17.7	16.1	17.7
60°	14.5	14.5	12.9	12.9	12.9
62.5°	11.3	11.3	11.3	9.6	11.3
65°	9.6	9.6	9.6	8.0	9.6
67.5°	8.0	8.0	6.4	8.0	8.0
70°	6.4	6.4	6.4	6.4	6.4
72.5°	4.8	4.8	4.8	4.8	4.8
75°	4.8	4.8	4.8	4.8	4.8
77.5°	3.2	3.2	3.2	3.2	3.2
80°	3.2	3.2	3.2	3.2	3.2
82.5°	1.6	1.6	1.6	1.6	1.6
85°	1.6	1.6	1.6	1.6	1.6
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)