

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: P1179133

Luminaire Tested: LDA2B158027R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179133
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: LDA2B158027R2040D010 2LBDC1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

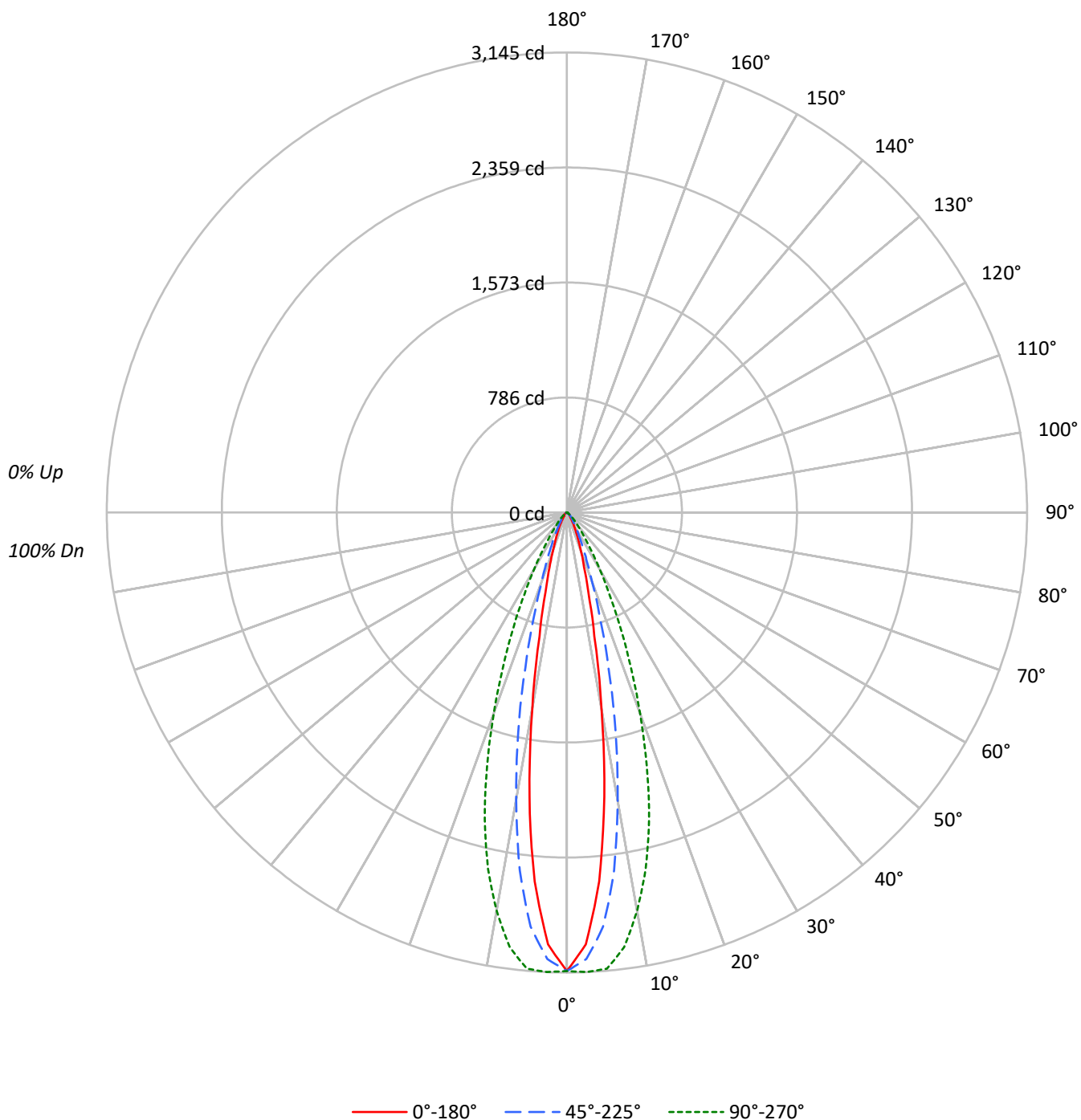
Lumens per Lamp: N/A
Luminaire Lumens: 883.4 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	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°	1546245	1546245	1546245
5°	1253369	1407738	1550270
10°	681423	999491	1384338
15°	288225	560872	1108106
20°	147112	263720	766221
25°	81491	134894	467010
30°	45632	74914	254706
35°	26380	45352	129732
40°	19643	34392	71810
45°	17303	23304	42561
50°	18267	15351	22642
55°	13160	10666	12300
60°	8486	7499	7499
65°	6654	6654	6654
70°	5481	5481	5481
75°	5528	5528	5528
80°	5398	5398	5398
85°	5661	5661	5661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 42561 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.2	27.6
10°-20°	345.3	39.1
20°-30°	177.9	20.1
30°-40°	65.5	7.4
40°-50°	28.8	3.3
50°-60°	12.6	1.4
60°-70°	5.5	0.6
70°-80°	2.8	0.3
80°-90°	0.8	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°	767.4	86.9
0°-40°	832.9	94.3
0°-60°	874.2	99.0
0°-90°	883.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	883.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3134	3134	3134	3134	3134	
5°	2531	2617	2842	3044	3130	204
15°	564	656	1098	1832	2170	172
25°	150	168	248	569	858	72
35°	44	50	75	132	215	30
45°	25	29	33	40	61	20
55°	15	13	12	13	14	14
65°	6	6	6	5	6	6
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°	3134.1	3134.1	3134.1	3134.1	3134.1
2.5°	2954.9	2990.2	3056.0	3118.9	3144.6
5°	2530.8	2616.6	2842.5	3043.6	3130.3
7.5°	1959.8	2100.9	2466.9	2843.4	2997.8
10°	1360.2	1503.2	1995.1	2536.5	2763.3
12.5°	867.4	1006.6	1537.5	2196.2	2490.7
15°	564.3	655.8	1098.1	1832.1	2169.5
17.5°	391.8	456.6	747.3	1446.0	1814.0
20°	280.2	326.0	502.3	1102.9	1459.4
22.5°	203.0	234.5	348.9	805.5	1134.3
25°	149.7	167.8	247.8	569.1	857.9
27.5°	110.6	122.0	179.2	392.7	627.2
30°	80.1	89.6	131.5	269.8	447.1
32.5°	58.1	66.7	98.2	186.8	311.7
35°	43.8	50.5	75.3	131.5	215.4
37.5°	36.2	40.0	62.0	95.3	152.5
40°	30.5	34.3	53.4	70.5	111.5
42.5°	26.7	31.5	43.8	52.4	83.9
45°	24.8	28.6	33.4	40.0	61.0
47.5°	24.8	23.8	25.7	30.5	42.9
50°	23.8	20.0	20.0	23.8	29.5
52.5°	20.0	16.2	16.2	17.2	20.0
55°	15.3	13.3	12.4	13.3	14.3
57.5°	11.4	11.4	10.5	9.5	10.5
60°	8.6	8.6	7.6	7.6	7.6
62.5°	6.7	6.7	6.7	5.7	6.7
65°	5.7	5.7	5.7	4.8	5.7
67.5°	4.8	4.8	3.8	4.8	4.8
70°	3.8	3.8	3.8	3.8	3.8
72.5°	2.9	2.9	2.9	2.9	2.9
75°	2.9	2.9	2.9	2.9	2.9
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
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)