

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: P1179452

Luminaire Tested: LDA2B159035R2050D010 2LBD1WMH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B159035R2050D010 2LBD1WMH
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

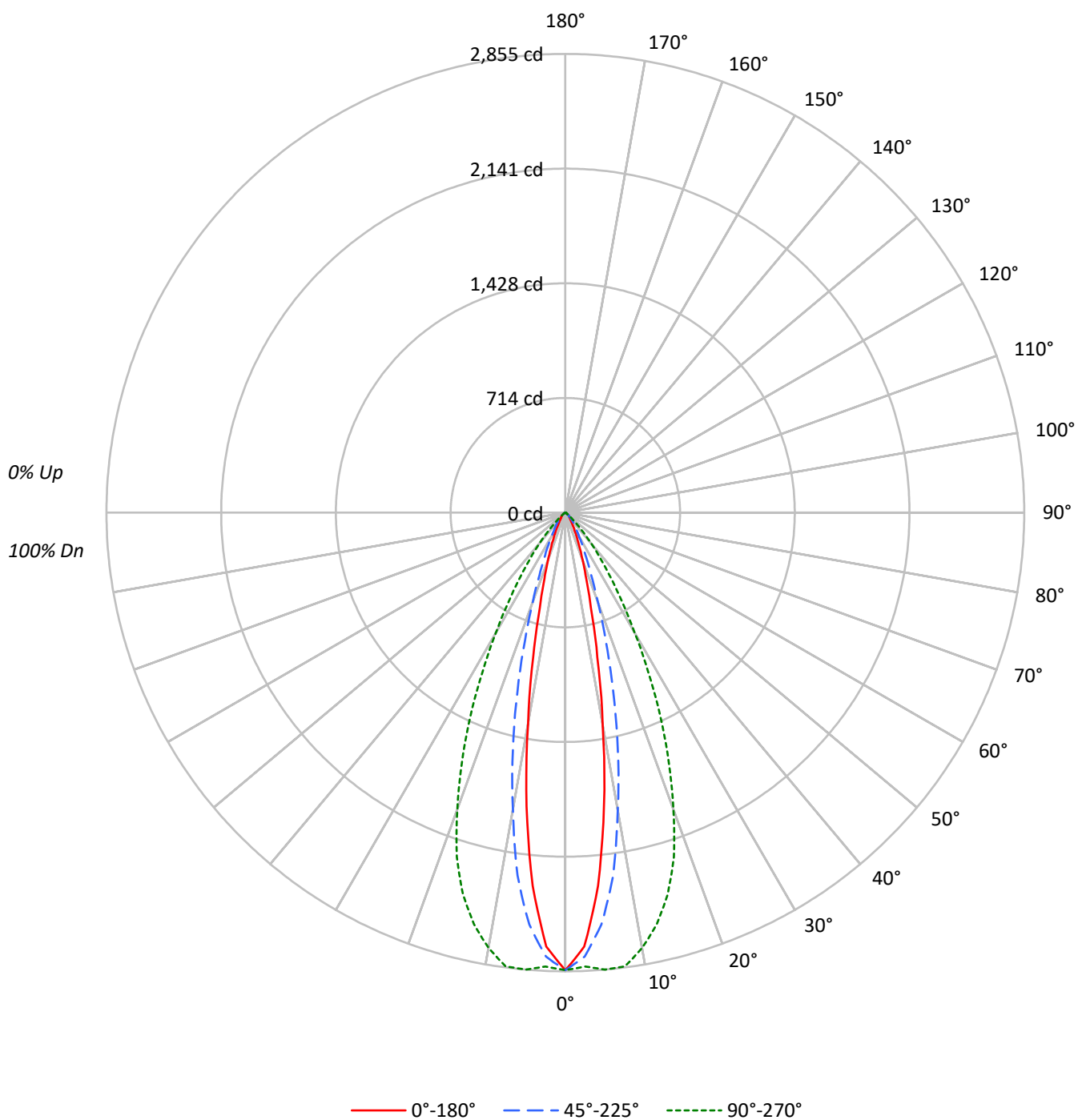
Lumens per Lamp: N/A
Luminaire Lumens: 1023.6 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	96	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	91	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	86	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	82	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	78	78	76
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	74	74	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	71	71	70
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	68	68	67
9	82	74	69	66	81	74	69	66	73	68	65	72	68	65	71	68	65	65	65	64
10	79	71	66	63	79	71	66	63	70	66	63	69	65	62	69	65	62	62	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1404848	1404848	1404848
5°	1154964	1274368	1413730
10°	670402	941678	1378326
15°	312333	586461	1256075
20°	164595	309240	1032408
25°	91127	167392	761457
30°	53436	98100	492493
35°	34330	65769	291806
40°	26792	44374	162104
45°	23164	26513	72074
50°	20954	18191	26403
55°	14278	13246	12214
60°	10558	9374	9374
65°	8288	6888	8288
70°	6780	6780	6780
75°	6862	6862	6862
80°	6819	6819	6819
85°	6793	6793	6793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 72074 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.7	22.2
10°-20°	371.2	36.3
20°-30°	247.6	24.2
30°-40°	111.6	10.9
40°-50°	40.9	4.0
50°-60°	14.3	1.4
60°-70°	6.7	0.7
70°-80°	3.5	0.3
80°-90°	1.0	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°	845.6	82.6
0°-40°	957.2	93.5
0°-60°	1012.4	98.9
0°-90°	1023.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1023.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2848	2848	2848	2848	2848	
5°	2332	2405	2573	2761	2855	190
15°	612	718	1148	1940	2459	183
25°	167	195	308	838	1399	81
35°	57	64	109	236	484	38
45°	33	33	38	59	103	26
55°	17	15	15	13	14	16
65°	7	7	6	6	7	7
75°	4	4	4	4	4	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°	2847.5	2847.5	2847.5	2847.5	2847.5
2.5°	2703.8	2732.3	2765.5	2800.0	2827.3
5°	2332.1	2404.6	2573.2	2760.8	2854.6
7.5°	1844.1	1951.0	2278.7	2649.2	2847.5
10°	1338.2	1474.8	1879.7	2455.6	2751.3
12.5°	920.3	1048.5	1508.0	2211.0	2624.2
15°	611.5	718.4	1148.2	1940.3	2459.2
17.5°	431.0	503.5	834.8	1644.6	2246.6
20°	313.5	362.2	589.0	1354.9	1966.4
22.5°	228.0	264.8	419.2	1082.9	1682.6
25°	167.4	194.7	307.5	838.3	1398.8
27.5°	124.7	146.1	230.4	636.5	1115.0
30°	93.8	111.6	172.2	469.0	864.5
32.5°	72.4	84.3	131.8	334.9	654.3
35°	57.0	64.1	109.2	236.3	484.5
37.5°	47.5	52.2	90.2	165.1	355.0
40°	41.6	45.1	68.9	117.6	251.7
42.5°	36.8	39.2	49.9	84.3	163.9
45°	33.2	33.2	38.0	59.4	103.3
47.5°	30.9	27.3	29.7	41.6	60.6
50°	27.3	22.6	23.7	28.5	34.4
52.5°	21.4	19.0	19.0	19.0	20.2
55°	16.6	15.4	15.4	13.1	14.2
57.5°	13.1	13.1	11.9	10.7	11.9
60°	10.7	10.7	9.5	8.3	9.5
62.5°	8.3	8.3	7.1	7.1	8.3
65°	7.1	7.1	5.9	5.9	7.1
67.5°	5.9	5.9	5.9	4.7	5.9
70°	4.7	4.7	4.7	4.7	4.7
72.5°	3.6	3.6	4.7	3.6	3.6
75°	3.6	3.6	3.6	3.6	3.6
77.5°	2.4	2.4	2.4	2.4	2.4
80°	2.4	2.4	2.4	2.4	2.4
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2
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)