

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: P1179561

Luminaire Tested: LDA2B159727R2050D010 2LBD1GPH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179561
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: LDA2B159727R2050D010 2LBD1GPH
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

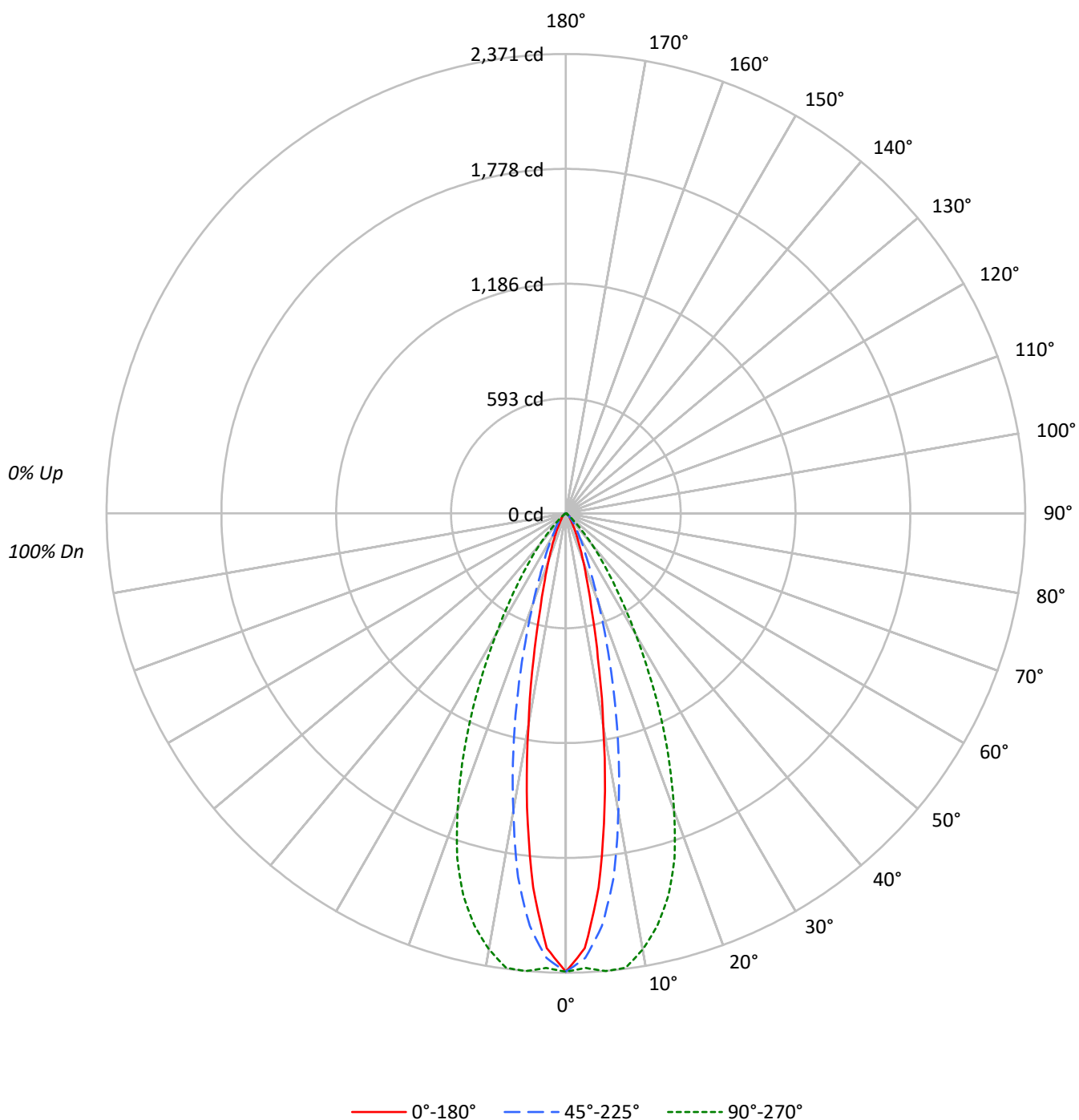
Lumens per Lamp: N/A
Luminaire Lumens: 850.3 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	1167047	1167047	1167047
5°	959490	1058639	1174427
10°	556931	782269	1145023
15°	259469	487219	1043443
20°	136716	256895	857628
25°	75721	139085	632552
30°	44378	81465	409091
35°	28488	54687	242419
40°	22219	36839	134668
45°	19257	22048	59864
50°	17423	15120	21951
55°	11870	11010	10150
60°	8782	7795	7795
65°	6888	5720	6888
70°	5626	5626	5626
75°	5719	5719	5719
80°	5682	5682	5682
85°	5661	5661	5661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 59864 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	22.1
10°-20°	308.4	36.3
20°-30°	205.7	24.2
30°-40°	92.7	10.9
40°-50°	33.9	4.0
50°-60°	11.9	1.4
60°-70°	5.5	0.7
70°-80°	2.9	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°	702.4	82.6
0°-40°	795.2	93.5
0°-60°	841.0	98.9
0°-90°	850.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	850.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2366	2366	2366	2366	2366	
5°	1937	1998	2138	2294	2371	158
15°	508	597	954	1612	2043	152
25°	139	162	256	696	1162	67
35°	47	53	91	196	402	31
45°	28	28	32	49	86	22
55°	14	13	13	11	12	13
65°	6	6	5	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°	2365.5	2365.5	2365.5	2365.5	2365.5
2.5°	2246.1	2269.8	2297.4	2326.0	2348.7
5°	1937.4	1997.5	2137.6	2293.5	2371.4
7.5°	1531.9	1620.7	1893.0	2200.7	2365.5
10°	1111.7	1225.2	1561.5	2040.0	2285.6
12.5°	764.5	871.0	1252.8	1836.7	2180.0
15°	508.0	596.8	953.9	1611.8	2042.9
17.5°	358.1	418.2	693.5	1366.2	1866.3
20°	260.4	300.9	489.3	1125.5	1633.5
22.5°	189.4	220.0	348.2	899.6	1397.8
25°	139.1	161.8	255.5	696.4	1162.0
27.5°	103.6	121.3	191.4	528.7	926.3
30°	77.9	92.7	143.0	389.6	718.1
32.5°	60.2	70.0	109.5	278.2	543.5
35°	47.3	53.3	90.8	196.3	402.5
37.5°	39.5	43.4	75.0	137.1	294.9
40°	34.5	37.5	57.2	97.7	209.1
42.5°	30.6	32.6	41.4	70.0	136.1
45°	27.6	27.6	31.6	49.3	85.8
47.5°	25.6	22.7	24.7	34.5	50.3
50°	22.7	18.7	19.7	23.7	28.6
52.5°	17.8	15.8	15.8	15.8	16.8
55°	13.8	12.8	12.8	10.9	11.8
57.5°	10.9	10.9	9.9	8.9	9.9
60°	8.9	8.9	7.9	6.9	7.9
62.5°	6.9	6.9	5.9	5.9	6.9
65°	5.9	5.9	4.9	4.9	5.9
67.5°	4.9	4.9	4.9	3.9	4.9
70°	3.9	3.9	3.9	3.9	3.9
72.5°	3.0	3.0	3.9	3.0	3.0
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0
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)