

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: P1179407

Luminaire Tested: LDA2B159030R2050D010 2LBD1LI

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179407
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: LDA2B159030R2050D010 2LBD1LI
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

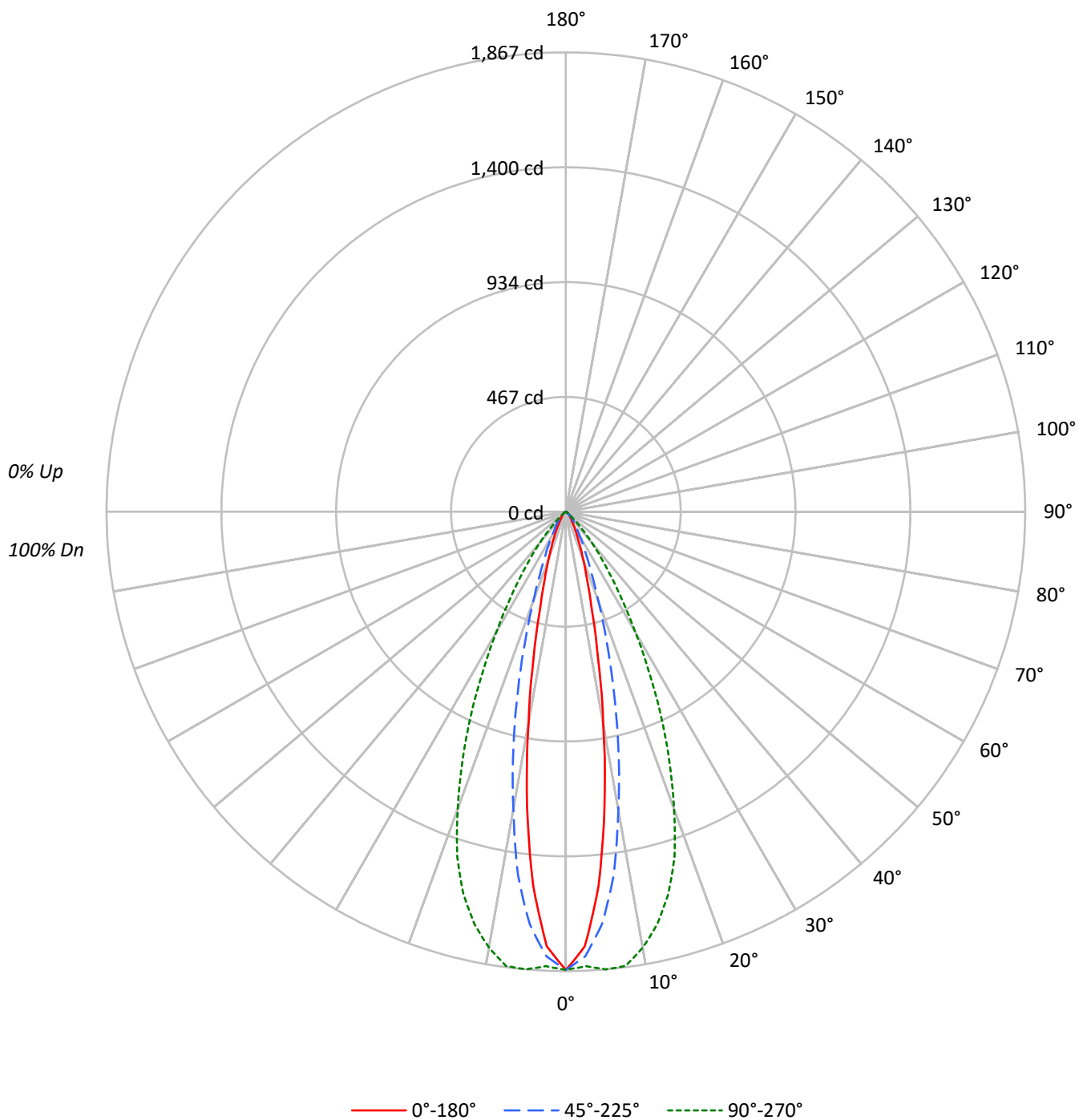
Lumens per Lamp: N/A
Luminaire Lumens: 669.3 lumens
Efficiency: N/A
Efficacy: 47.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	918590	918590	918590
5°	755201	833302	924427
10°	438401	615746	901250
15°	204255	383483	821311
20°	107630	202187	675077
25°	59608	109472	497930
30°	34922	64147	322043
35°	22465	43003	190803
40°	17518	28982	106009
45°	15141	17303	47166
50°	13739	11897	17270
55°	9376	8688	7999
60°	6907	6118	6118
65°	5487	4553	5487
70°	4472	4472	4472
75°	4384	4384	4384
80°	4546	4546	4546
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 47166 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	22.1
10°-20°	242.7	36.3
20°-30°	161.9	24.2
30°-40°	73.0	10.9
40°-50°	26.7	4.0
50°-60°	9.3	1.4
60°-70°	4.4	0.7
70°-80°	2.3	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°	552.9	82.6
0°-40°	625.9	93.5
0°-60°	662.0	98.9
0°-90°	669.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	669.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1525	1572	1683	1805	1867	125
15°	400	470	751	1269	1608	120
25°	110	127	201	548	915	53
35°	37	42	71	154	317	25
45°	22	22	25	39	68	17
55°	11	10	10	8	9	10
65°	5	5	4	4	5	5
75°	2	2	2	2	2	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°	1861.9	1861.9	1861.9	1861.9	1861.9
2.5°	1768.0	1786.6	1808.4	1830.9	1848.7
5°	1524.9	1572.3	1682.6	1805.2	1866.6
7.5°	1205.8	1275.7	1490.0	1732.3	1861.9
10°	875.1	964.4	1229.1	1605.7	1799.0
12.5°	601.7	685.6	986.1	1445.7	1716.0
15°	399.9	469.8	750.8	1268.7	1608.0
17.5°	281.9	329.2	545.8	1075.4	1469.0
20°	205.0	236.8	385.1	885.9	1285.8
22.5°	149.1	173.1	274.1	708.1	1100.2
25°	109.5	127.3	201.1	548.2	914.7
27.5°	81.5	95.5	150.6	416.2	729.1
30°	61.3	73.0	112.6	306.7	565.3
32.5°	47.4	55.1	86.2	219.0	427.8
35°	37.3	41.9	71.4	154.5	316.8
37.5°	31.1	34.2	59.0	107.9	232.2
40°	27.2	29.5	45.0	76.9	164.6
42.5°	24.1	25.6	32.6	55.1	107.2
45°	21.7	21.7	24.8	38.8	67.6
47.5°	20.2	17.9	19.4	27.2	39.6
50°	17.9	14.8	15.5	18.6	22.5
52.5°	14.0	12.4	12.4	12.4	13.2
55°	10.9	10.1	10.1	8.5	9.3
57.5°	8.5	8.5	7.8	7.0	7.8
60°	7.0	7.0	6.2	5.4	6.2
62.5°	5.4	5.4	4.7	4.7	5.4
65°	4.7	4.7	3.9	3.9	4.7
67.5°	3.9	3.9	3.9	3.1	3.9
70°	3.1	3.1	3.1	3.1	3.1
72.5°	2.3	2.3	3.1	2.3	2.3
75°	2.3	2.3	2.3	2.3	2.3
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
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)