

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: P1179404

Luminaire Tested: LDA2B159030R2050D010 2LBD1B

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179404
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 2LBD1B
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

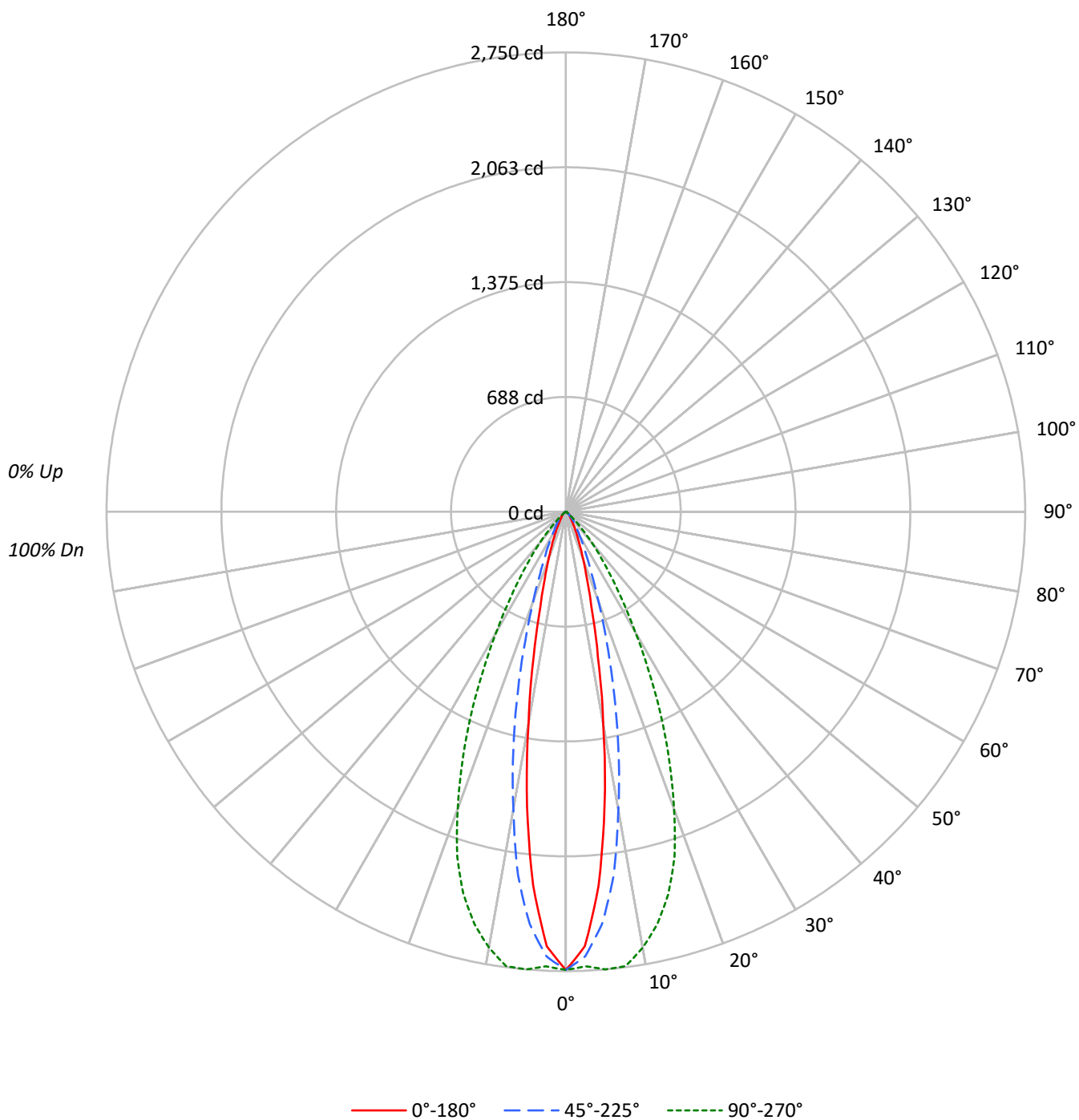
Lumens per Lamp: N/A
Luminaire Lumens: 985.9 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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			0
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	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83	80	78	76
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77	73	71	70
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74	70	68	67
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1353193	1353193	1353193
5°	1112521	1227518	1361729
10°	645754	907061	1327628
15°	300841	564907	1209902
20°	158557	297846	994449
25°	87806	161241	733477
30°	51500	94454	474377
35°	33065	63360	281086
40°	25762	42700	156179
45°	22327	25537	69423
50°	20186	17577	25482
55°	13762	12816	11784
60°	10163	9078	9078
65°	8055	6654	8055
70°	6635	6635	6635
75°	6481	6481	6481
80°	6535	6535	6535
85°	6227	6227	6227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 69423 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	22.2
10°-20°	357.6	36.3
20°-30°	238.5	24.2
30°-40°	107.5	10.9
40°-50°	39.4	4.0
50°-60°	13.8	1.4
60°-70°	6.5	0.7
70°-80°	3.4	0.3
80°-90°	0.9	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°	814.5	82.6
0°-40°	922.0	93.5
0°-60°	975.2	98.9
0°-90°	985.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	985.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2743	2743	2743	2743	2743	
5°	2246	2316	2479	2659	2750	183
15°	589	692	1106	1869	2369	176
25°	161	188	296	808	1347	78
35°	55	62	105	228	467	36
45°	32	32	37	57	100	25
55°	16	15	15	13	14	15
65°	7	7	6	6	7	7
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°	2742.8	2742.8	2742.8	2742.8	2742.8
2.5°	2604.4	2631.8	2663.9	2697.0	2723.3
5°	2246.4	2316.2	2478.6	2659.3	2749.6
7.5°	1776.3	1879.2	2194.9	2551.8	2742.8
10°	1289.0	1420.6	1810.6	2365.3	2650.1
12.5°	886.4	1010.0	1452.6	2129.7	2527.8
15°	589.0	692.0	1106.0	1868.9	2368.8
17.5°	415.2	485.0	804.1	1584.1	2164.0
20°	302.0	348.9	567.3	1305.1	1894.1
22.5°	219.6	255.1	403.8	1043.1	1620.7
25°	161.3	187.6	296.2	807.5	1347.4
27.5°	120.1	140.7	221.9	613.1	1074.0
30°	90.4	107.5	165.8	451.8	832.7
32.5°	69.8	81.2	127.0	322.5	630.2
35°	54.9	61.8	105.2	227.6	466.7
37.5°	45.8	50.3	86.9	159.0	342.0
40°	40.0	43.5	66.3	113.2	242.5
42.5°	35.5	37.7	48.0	81.2	157.8
45°	32.0	32.0	36.6	57.2	99.5
47.5°	29.7	26.3	28.6	40.0	58.3
50°	26.3	21.7	22.9	27.5	33.2
52.5°	20.6	18.3	18.3	18.3	19.4
55°	16.0	14.9	14.9	12.6	13.7
57.5°	12.6	12.6	11.4	10.3	11.4
60°	10.3	10.3	9.2	8.0	9.2
62.5°	8.0	8.0	6.9	6.9	8.0
65°	6.9	6.9	5.7	5.7	6.9
67.5°	5.7	5.7	5.7	4.6	5.7
70°	4.6	4.6	4.6	4.6	4.6
72.5°	3.4	3.4	4.6	3.4	3.4
75°	3.4	3.4	3.4	3.4	3.4
77.5°	2.3	2.3	2.3	2.3	2.3
80°	2.3	2.3	2.3	2.3	2.3
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1
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)