

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: P1179556

Luminaire Tested: LDA2B159727R2040D010 2LBD1WMH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179556
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: LDA2B159727R2040D010 2LBD1WMH
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

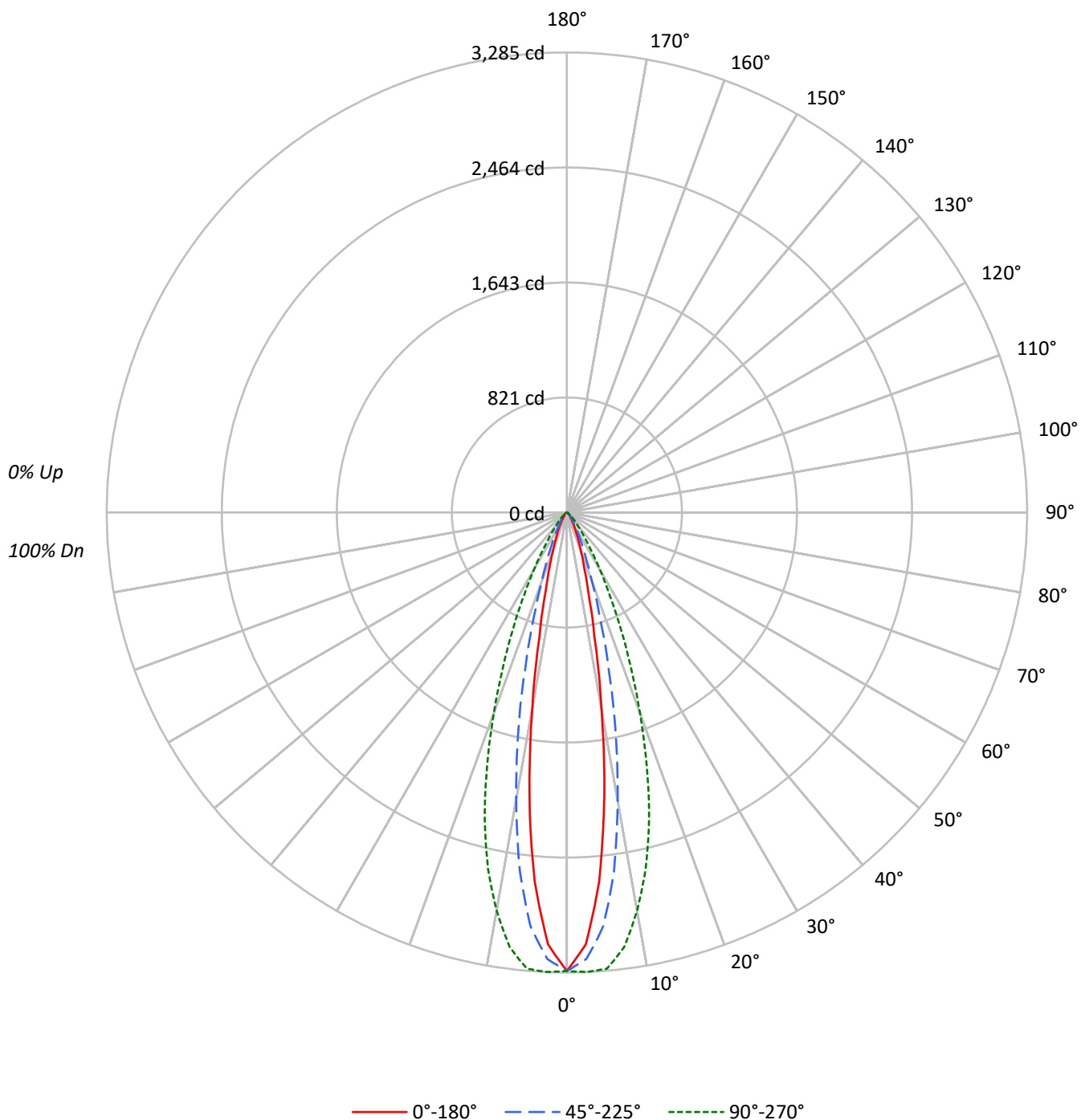
Lumens per Lamp: N/A
Luminaire Lumens: 922.7 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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			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	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92	90	88	87
4	102	95	91	87	100	94	90	87	92	89	86		90	87	85		89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86	83	81	79
6	94	87	83	79	93	87	82	79	85	81	78		84	80	78		83	80	77	76
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80	77	74	73
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77	74	72	70
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1615069	1615069	1615069
5°	1309134	1470386	1619307
10°	711782	1043977	1445957
15°	301045	585848	1157446
20°	153675	275480	800295
25°	85084	140936	487805
30°	47626	78275	266043
35°	27585	47400	135514
40°	20545	35937	75030
45°	18071	24281	44445
50°	19112	16041	23717
55°	13676	11096	12816
60°	8881	7894	7894
65°	7004	7004	7004
70°	5770	5770	5770
75°	5719	5719	5719
80°	5682	5682	5682
85°	5661	5661	5661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 44445 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	27.6
10°-20°	360.7	39.1
20°-30°	185.8	20.1
30°-40°	68.4	7.4
40°-50°	30.0	3.3
50°-60°	13.2	1.4
60°-70°	5.8	0.6
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°	801.6	86.9
0°-40°	870.0	94.3
0°-60°	913.2	99.0
0°-90°	922.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	922.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3274	3274	3274	3274	3274	
5°	2643	2733	2969	3179	3270	213
15°	589	685	1147	1914	2266	180
25°	156	175	259	594	896	75
35°	46	53	79	137	225	31
45°	26	30	35	42	64	21
55°	16	14	13	14	15	15
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°	3273.6	3273.6	3273.6	3273.6	3273.6
2.5°	3086.5	3123.3	3192.0	3257.7	3284.6
5°	2643.4	2733.0	2969.0	3179.1	3269.7
7.5°	2047.0	2194.4	2576.7	2970.0	3131.3
10°	1420.8	1570.1	2083.9	2649.4	2886.3
12.5°	906.0	1051.4	1606.0	2293.9	2601.6
15°	589.4	685.0	1147.0	1913.6	2266.1
17.5°	409.2	476.9	780.6	1510.4	1894.7
20°	292.7	340.5	524.7	1151.9	1524.3
22.5°	212.1	244.9	364.4	841.3	1184.8
25°	156.3	175.2	258.9	594.4	896.1
27.5°	115.5	127.4	187.2	410.2	655.1
30°	83.6	93.6	137.4	281.8	467.0
32.5°	60.7	69.7	102.6	195.1	325.6
35°	45.8	52.8	78.7	137.4	225.0
37.5°	37.8	41.8	64.7	99.6	159.3
40°	31.9	35.8	55.8	73.7	116.5
42.5°	27.9	32.9	45.8	54.8	87.6
45°	25.9	29.9	34.8	41.8	63.7
47.5°	25.9	24.9	26.9	31.9	44.8
50°	24.9	20.9	20.9	24.9	30.9
52.5°	20.9	16.9	16.9	17.9	20.9
55°	15.9	13.9	12.9	13.9	14.9
57.5°	11.9	11.9	11.0	10.0	11.0
60°	9.0	9.0	8.0	8.0	8.0
62.5°	7.0	7.0	7.0	6.0	7.0
65°	6.0	6.0	6.0	5.0	6.0
67.5°	5.0	5.0	4.0	5.0	5.0
70°	4.0	4.0	4.0	4.0	4.0
72.5°	3.0	3.0	3.0	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)