

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: P1178857

Luminaire Tested: LDA2B109027R2040D010 2LBD1WMH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178857
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: LDA2B109027R2040D010 2LBD1WMH
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

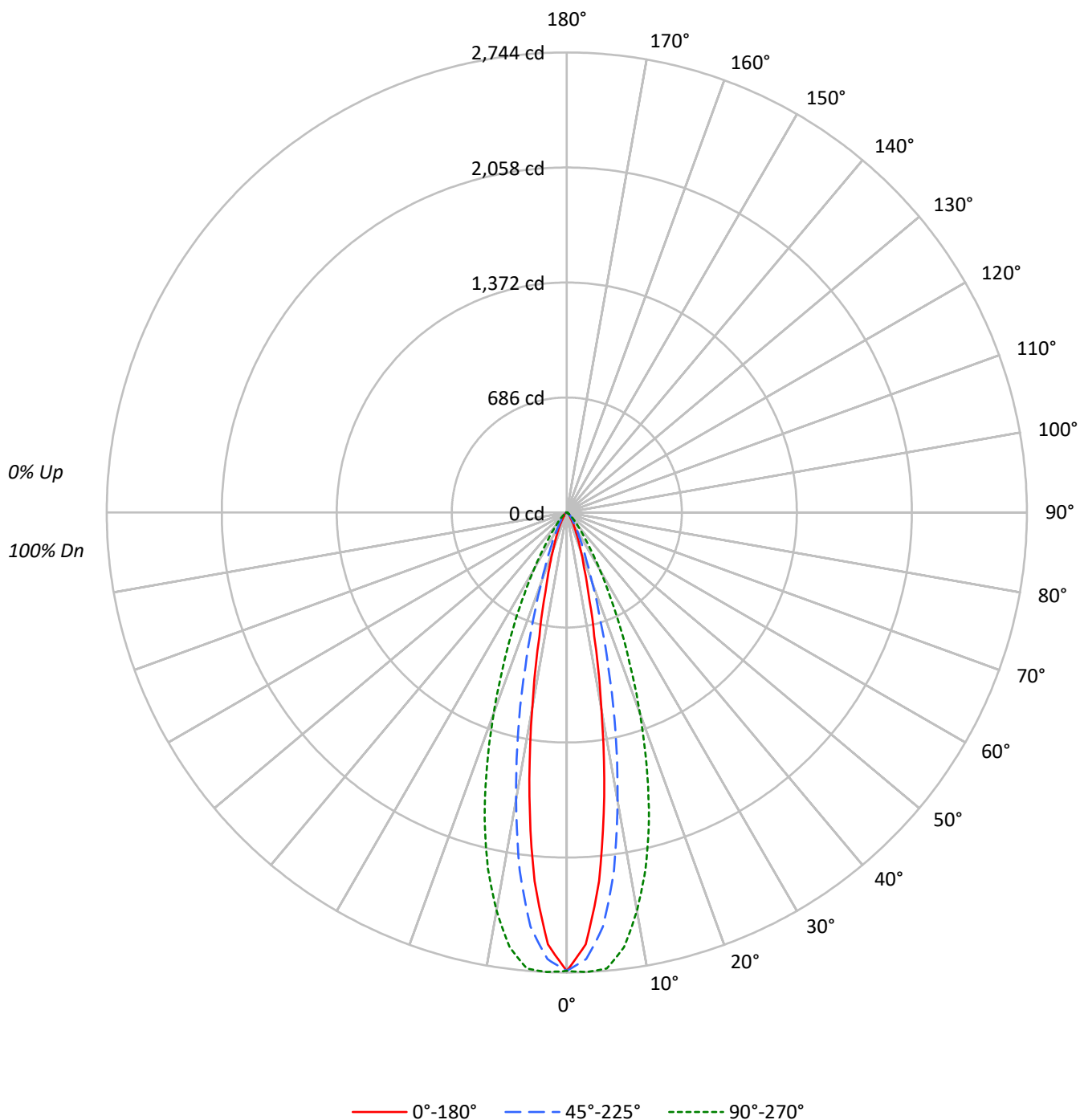
Lumens per Lamp: N/A
Luminaire Lumens: 770.7 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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

TEST NUMBER: P1178857

CATALOG NUMBER: LDA2B109027R2040D010 2LBD1WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1178857

CATALOG NUMBER: LDA2B109027R2040D010 2LBD1WMH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1348999	1348999	1348999
5°	1093454	1228161	1352518
10°	594504	871993	1207745
15°	251450	489314	966726
20°	128369	230118	668461
25°	71094	117692	407402
30°	39821	65400	222177
35°	23067	39570	113169
40°	17131	30012	62665
45°	15071	20304	37119
50°	15965	13432	19802
55°	11440	9290	10752
60°	7400	6611	6611
65°	5837	5837	5837
70°	4760	4760	4760
75°	4766	4766	4766
80°	4830	4830	4830
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 37119 cd/sqm

TEST NUMBER: P1178857

CATALOG NUMBER: LDA2B109027R2040D010 2LBD1WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.1	27.6
10°-20°	301.3	39.1
20°-30°	155.2	20.1
30°-40°	57.1	7.4
40°-50°	25.1	3.3
50°-60°	11.0	1.4
60°-70°	4.8	0.6
70°-80°	2.4	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°	669.5	86.9
0°-40°	726.7	94.3
0°-60°	762.7	99.0
0°-90°	770.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	770.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2734	2734	2734	2734	2734	
5°	2208	2283	2480	2655	2731	178
15°	492	572	958	1598	1893	150
25°	131	146	216	496	748	63
35°	38	44	66	115	188	26
45°	22	25	29	35	53	17
55°	13	12	11	12	12	12
65°	5	5	5	4	5	5
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

TEST NUMBER: P1178857

CATALOG NUMBER: LDA2B109027R2040D010 2LBD1WMH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2734.3	2734.3	2734.3	2734.3	2734.3
2.5°	2578.0	2608.8	2666.1	2721.0	2743.5
5°	2207.9	2282.8	2479.9	2655.3	2731.0
7.5°	1709.8	1832.9	2152.2	2480.7	2615.4
10°	1186.7	1311.5	1740.6	2212.9	2410.8
12.5°	756.8	878.2	1341.4	1916.0	2173.0
15°	492.3	572.1	958.0	1598.4	1892.7
17.5°	341.8	398.3	652.0	1261.6	1582.6
20°	244.5	284.4	438.3	962.2	1273.2
22.5°	177.1	204.6	304.4	702.7	989.6
25°	130.6	146.4	216.2	496.5	748.4
27.5°	96.5	106.4	156.3	342.6	547.2
30°	69.9	78.2	114.8	235.3	390.0
32.5°	50.7	58.2	85.7	163.0	271.9
35°	38.3	44.1	65.7	114.8	187.9
37.5°	31.6	34.9	54.1	83.2	133.1
40°	26.6	29.9	46.6	61.5	97.3
42.5°	23.3	27.4	38.3	45.7	73.2
45°	21.6	24.9	29.1	34.9	53.2
47.5°	21.6	20.8	22.5	26.6	37.4
50°	20.8	17.5	17.5	20.8	25.8
52.5°	17.5	14.1	14.1	15.0	17.5
55°	13.3	11.6	10.8	11.6	12.5
57.5°	10.0	10.0	9.1	8.3	9.1
60°	7.5	7.5	6.7	6.7	6.7
62.5°	5.8	5.8	5.8	5.0	5.8
65°	5.0	5.0	5.0	4.2	5.0
67.5°	4.2	4.2	3.3	4.2	4.2
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.5	2.5	2.5	2.5	2.5
75°	2.5	2.5	2.5	2.5	2.5
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7
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)