

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: P784820

Luminaire Tested: LER4DD40BD010-EC4DR6540509040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD40BD010-EC4DR6540509040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2597.3 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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

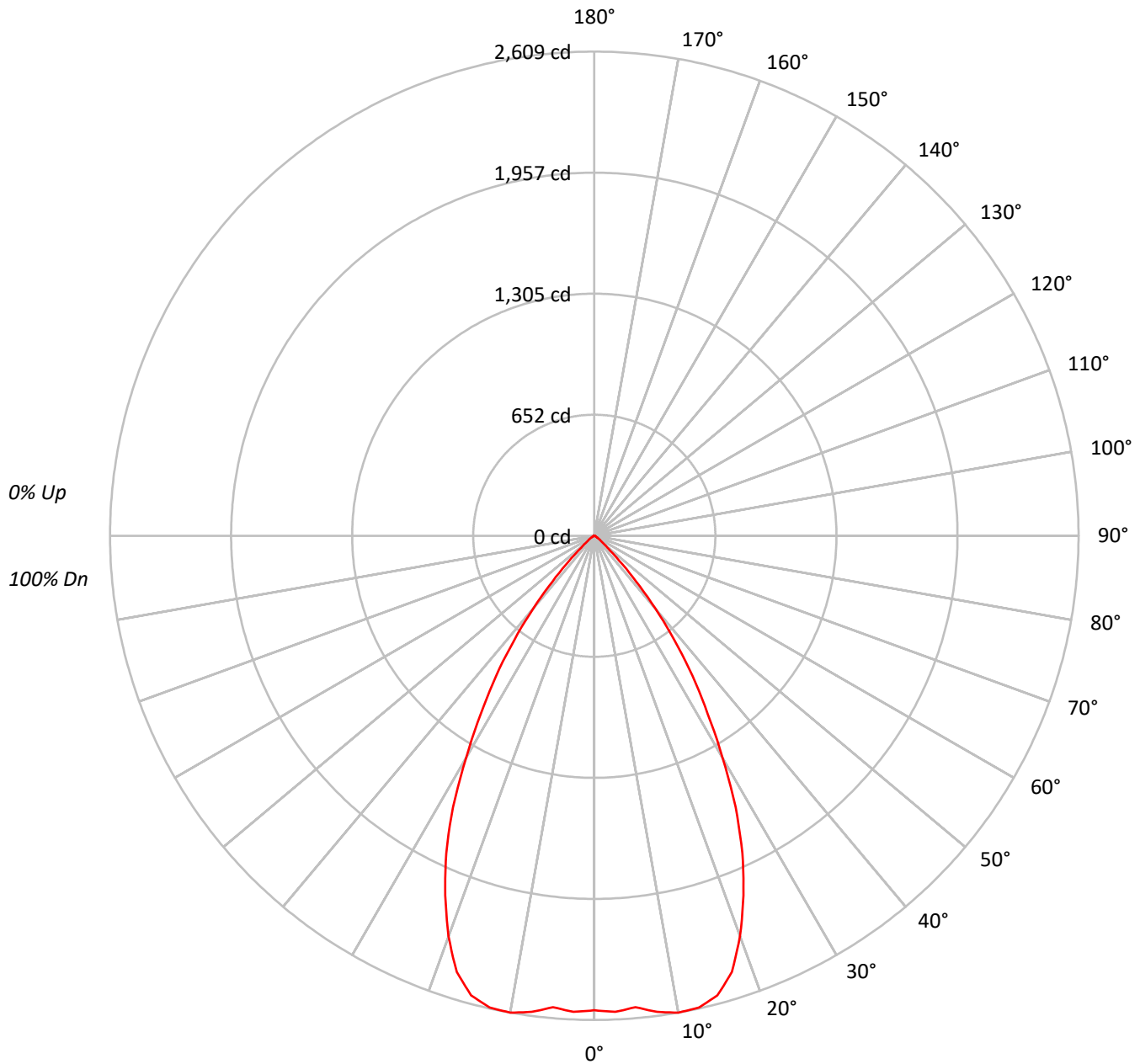


Downlight

TEST NUMBER: P784820

CATALOG NUMBER: LER4DD40BD010-EC4DR6540509040-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P784820

CATALOG NUMBER: LER4DD40BD010-EC4DR6540509040-4LBDP1B

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	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82
5	92	83	78	73	90	83	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	68	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	65	59	55	64	58	55		63	58	55		62
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	279402
5°	279635
10°	289481
15°	289959
20°	266963
25°	227465
30°	174131
35°	123019
40°	72613
45°	29482
50°	10692
55°	5962
60°	3409
65°	1887
70°	1981
75°	1520
80°	1573
85°	1379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 29482 cd/sqm



TEST NUMBER: P784820

CATALOG NUMBER: LER4DD40BD010-EC4DR6540509040-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.2	9.5
10°-20°	710.3	27.3
20°-30°	852.2	32.8
30°-40°	572.7	22.1
40°-50°	171.4	6.6
50°-60°	30.3	1.2
60°-70°	8.6	0.3
70°-80°	4.2	0.2
80°-90°	1.3	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°	1808.8	69.6
0°-40°	2381.5	91.7
0°-60°	2583.2	99.5
0°-90°	2597.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2597.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2557	
5°	2550	246
15°	2563	710
25°	1887	852
35°	922	573
45°	191	171
55°	31	30
65°	7	9
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P784820

CATALOG NUMBER: LER4DD40BD010-EC4DR6540509040-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	2557.2
2.5°	2568.1
5°	2549.6
7.5°	2588.1
10°	2609.2
12.5°	2604.1
15°	2563.4
17.5°	2463.8
20°	2296.0
22.5°	2098.3
25°	1886.8
27.5°	1648.0
30°	1380.2
32.5°	1137.4
35°	922.3
37.5°	709.7
40°	509.1
42.5°	332.5
45°	190.8
47.5°	101.0
50°	62.9
52.5°	43.6
55°	31.3
57.5°	22.5
60°	15.6
62.5°	10.2
65°	7.3
67.5°	6.5
70°	6.2
72.5°	4.7
75°	3.6
77.5°	3.3
80°	2.5
82.5°	1.8
85°	1.1
87.5°	0.7
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)