

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: P784822

Luminaire Tested: LER4DD40BD010-EC4DR6540509040-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784822
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-EC4DR6540509040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3661.1 lumens
Efficiency: N/A
Efficacy: 104.0 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

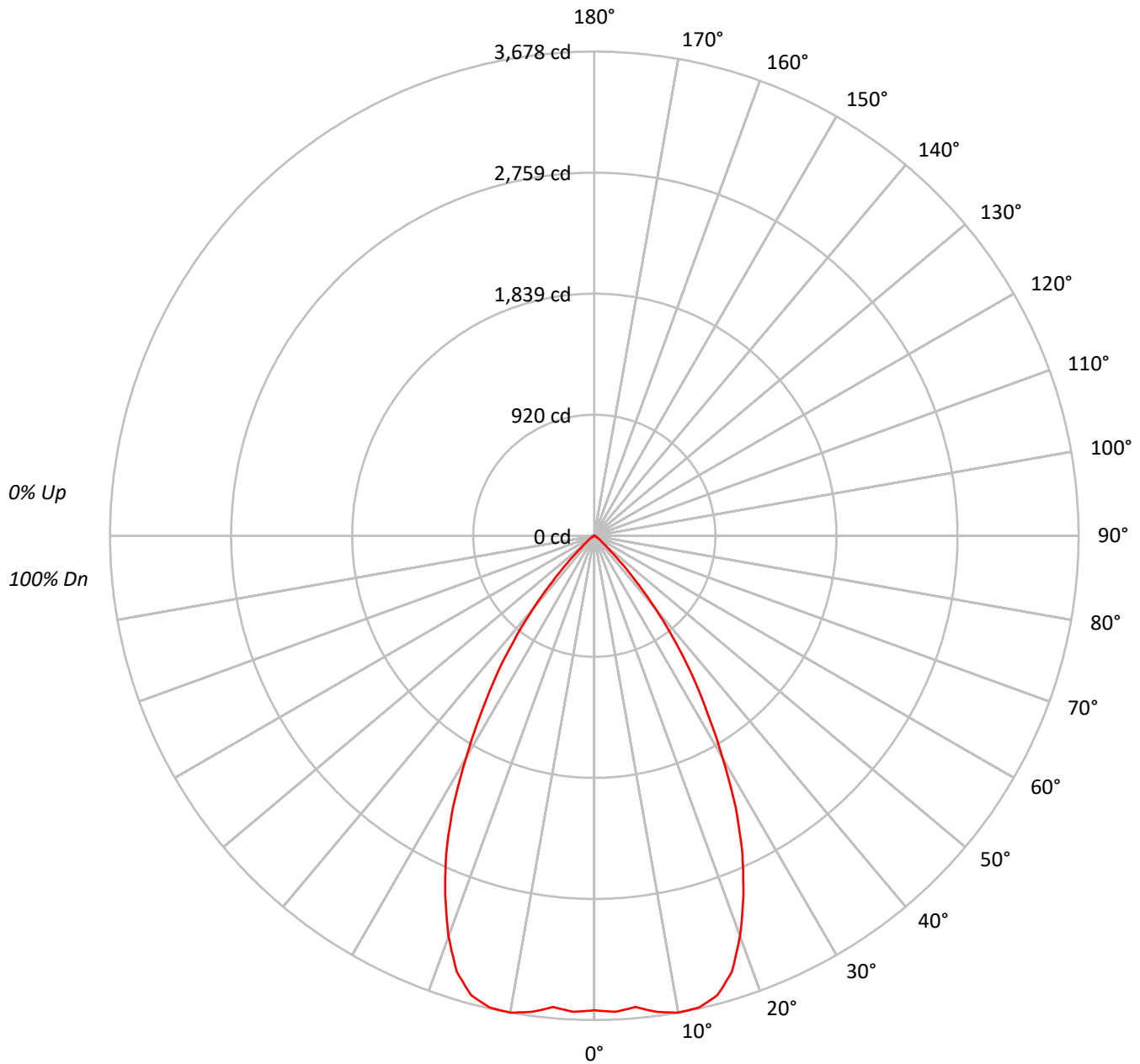


Downlight

TEST NUMBER: P784822

CATALOG NUMBER: LER4DD40BD010-EC4DR6540509040-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P784822

CATALOG NUMBER: LER4DD40BD010-EC4DR6540509040-4LBDP1LI

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	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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93						
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87						
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80						
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75						
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69						
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65						
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60						
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57						
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53						
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	393852
5°	394172
10°	408049
15°	408730
20°	376306
25°	320630
30°	245451
35°	173411
40°	102365
45°	41550
50°	15060
55°	8401
60°	4807
65°	2637
70°	2779
75°	2153
80°	2265
85°	1880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 41550 cd/sqm



TEST NUMBER: P784822

CATALOG NUMBER: LER4DD40BD010-EC4DR6540509040-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.1	9.5
10°-20°	1001.2	27.3
20°-30°	1201.3	32.8
30°-40°	807.3	22.1
40°-50°	241.7	6.6
50°-60°	42.7	1.2
60°-70°	12.1	0.3
70°-80°	5.9	0.2
80°-90°	1.9	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°	2549.6	69.6
0°-40°	3356.9	91.7
0°-60°	3641.2	99.5
0°-90°	3661.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3661.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3605	
5°	3594	347
15°	3613	1001
25°	2660	1201
35°	1300	807
45°	269	242
55°	44	43
65°	10	12
75°	5	6
85°	2	2
90°	0	



TEST NUMBER: P784822

CATALOG NUMBER: LER4DD40BD010-EC4DR6540509040-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	3604.7
2.5°	3620.1
5°	3593.9
7.5°	3648.2
10°	3677.9
12.5°	3670.8
15°	3613.4
17.5°	3473.0
20°	3236.4
22.5°	2957.7
25°	2659.6
27.5°	2323.0
30°	1945.5
32.5°	1603.3
35°	1300.1
37.5°	1000.4
40°	717.7
42.5°	468.7
45°	268.9
47.5°	142.4
50°	88.6
52.5°	61.5
55°	44.1
57.5°	31.8
60°	22.0
62.5°	14.3
65°	10.2
67.5°	9.2
70°	8.7
72.5°	6.7
75°	5.1
77.5°	4.6
80°	3.6
82.5°	2.6
85°	1.5
87.5°	1.0
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)