

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: P784992

Luminaire Tested: LER4DD45BD010-EC4DR5040509050-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD45BD010-EC4DR5040509050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4060.9 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
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

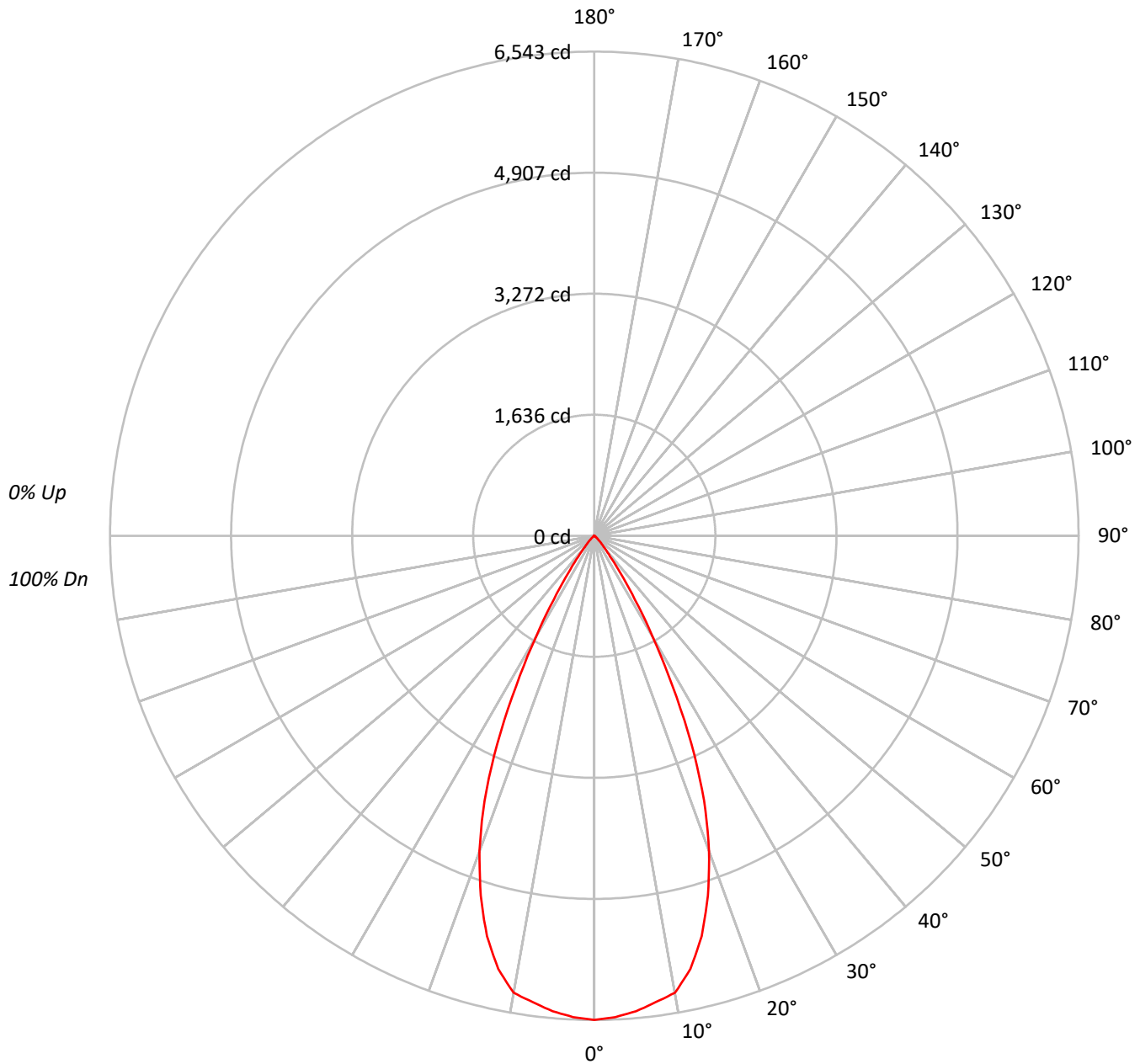


Downlight

TEST NUMBER: P784992

CATALOG NUMBER: LER4DD45BD010-EC4DR5040509050-4LBDP1B

Luminous Intensity Polar Plot



TEST NUMBER: P784992

CATALOG NUMBER: LER4DD45BD010-EC4DR5040509050-4LBDP1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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	100		
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95		
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90		
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85		
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80		
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76		
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72		
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69		
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65		
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62		
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	714904
5°	707402
10°	695755
15°	633546
20°	527181
25°	374218
30°	198077
35°	80723
40°	29981
45°	13721
50°	5626
55°	2934
60°	1442
65°	440
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13721 cd/sqm



TEST NUMBER: P784992

CATALOG NUMBER: LER4DD45BD010-EC4DR5040509050-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.6	15.0
10°-20°	1540.7	37.9
20°-30°	1384.0	34.1
30°-40°	433.3	10.7
40°-50°	75.9	1.9
50°-60°	15.1	0.4
60°-70°	2.3	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	3534.3	87.0
0°-40°	3967.6	97.7
0°-60°	4058.6	99.9
0°-90°	4060.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4060.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6543	
5°	6450	610
15°	5601	1541
25°	3104	1384
35°	605	433
45°	89	76
55°	15	15
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P784992

CATALOG NUMBER: LER4DD45BD010-EC4DR5040509050-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	6543.1
2.5°	6510.5
5°	6449.8
7.5°	6357.2
10°	6271.1
12.5°	5995.3
15°	5600.9
17.5°	5100.0
20°	4534.0
22.5°	3879.2
25°	3104.1
27.5°	2282.2
30°	1570.0
32.5°	1022.2
35°	605.2
37.5°	347.5
40°	210.2
42.5°	136.8
45°	88.8
47.5°	54.1
50°	33.1
52.5°	22.6
55°	15.4
57.5°	10.5
60°	6.6
62.5°	3.9
65°	1.7
67.5°	0.6
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)