

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: P785143

Luminaire Tested: LER4DD50D010-EC4DR3540509024-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P785143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR3540509024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3714.3 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

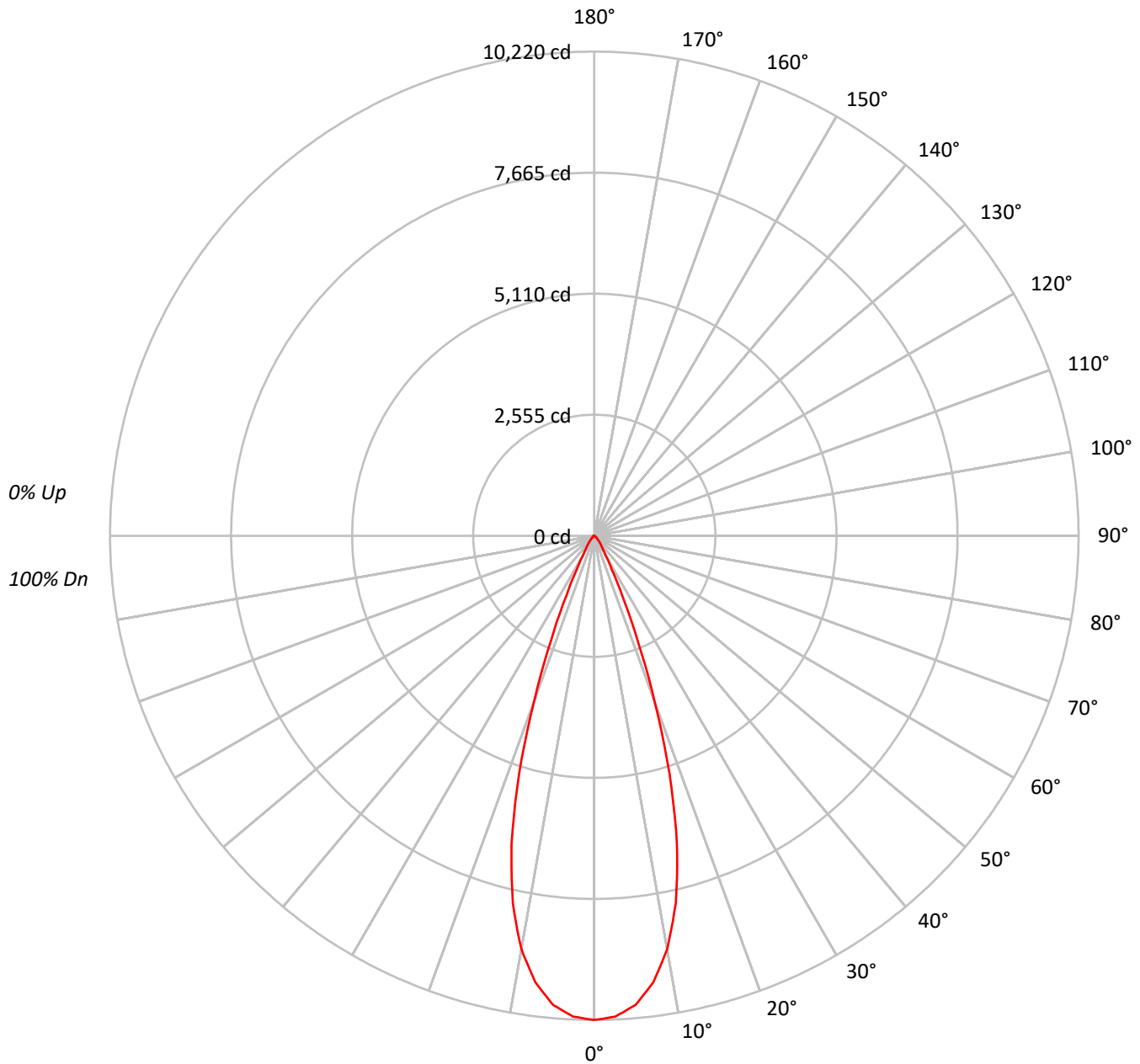


Downlight

TEST NUMBER: P785143

CATALOG NUMBER: LER4DD50D010-EC4DR3540509024-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P785143

CATALOG NUMBER: LER4DD50D010-EC4DR3540509024-4LBDP1MW

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	115	112	110	108	112	110	108	107		106	105	103			103	101	100			99
2	110	106	103	101	108	105	102	99		102	99	97			99	97	95			96
3	106	101	97	94	105	100	96	93		97	95	92			95	93	91			93
4	103	97	92	89	101	96	92	89		94	90	88			92	89	87			90
5	99	93	88	85	98	92	87	84		90	86	84			89	85	83			87
6	96	89	84	81	94	88	84	81		87	83	80			85	82	80			84
7	93	85	81	78	91	85	80	77		84	80	77			83	79	77			82
8	90	82	78	74	88	82	77	74		81	77	74			80	76	74			79
9	87	79	75	72	86	79	75	72		78	74	71			77	74	71			77
10	84	77	72	69	83	76	72	69		76	72	69			75	71	69			74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1116634
5°	1090398
10°	982740
15°	762757
20°	432628
25°	168308
30°	62792
35°	34413
40°	22493
45°	13690
50°	8720
55°	6153
60°	4502
65°	2456
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13690 cd/sqm



TEST NUMBER: P785143

CATALOG NUMBER: LER4DD50D010-EC4DR3540509024-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	914.4	24.6
10°-20°	1785.2	48.1
20°-30°	728.1	19.6
30°-40°	174.2	4.7
40°-50°	72.6	2.0
50°-60°	30.1	0.8
60°-70°	9.4	0.3
70°-80°	0.2	0.0
80°-90°	0.2	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°	3427.6	92.3
0°-40°	3601.9	97.0
0°-60°	3704.5	99.7
0°-90°	3714.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3714.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10220	
5°	9942	914
15°	6743	1785
25°	1396	728
35°	258	174
45°	89	73
55°	32	30
65°	10	9
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P785143

CATALOG NUMBER: LER4DD50D010-EC4DR3540509024-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	10219.9
2.5°	10158.6
5°	9941.8
7.5°	9509.3
10°	8857.8
12.5°	7940.4
15°	6743.2
17.5°	5279.1
20°	3720.8
22.5°	2372.6
25°	1396.1
27.5°	789.2
30°	497.7
32.5°	349.5
35°	258.0
37.5°	199.5
40°	157.7
42.5°	121.5
45°	88.6
47.5°	66.3
50°	51.3
52.5°	40.7
55°	32.3
57.5°	26.2
60°	20.6
62.5°	15.0
65°	9.5
67.5°	3.3
70°	0.6
72.5°	0.6
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)