

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: P785148

Luminaire Tested: LER4DD50D010-EC4DR3540509030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P785148
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-EC4DR3540509030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4001.1 lumens
Efficiency: N/A
Efficacy: 85.1 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

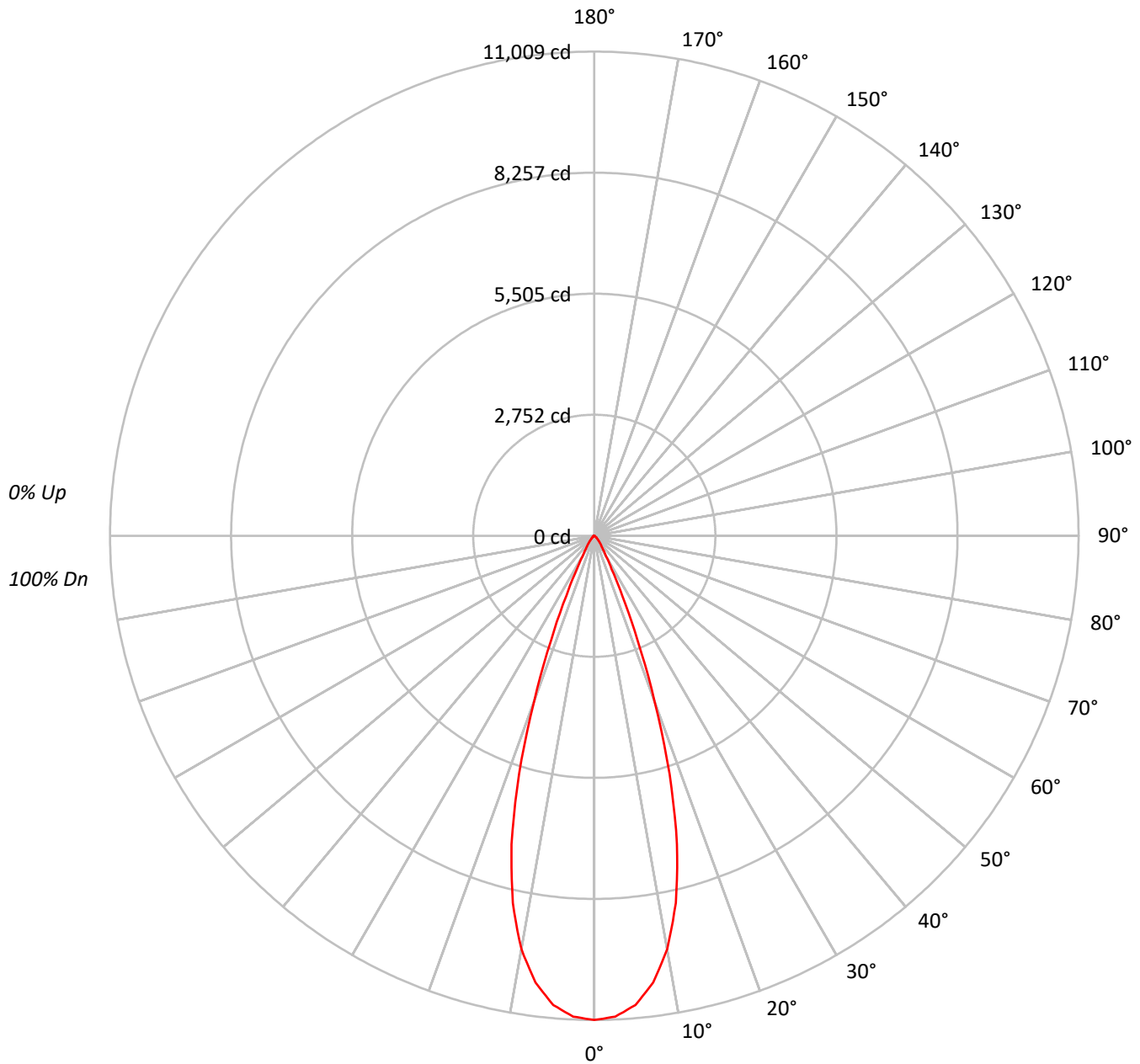


Downlight

TEST NUMBER: P785148

CATALOG NUMBER: LER4DD50D010-EC4DR3540509030-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P785148

CATALOG NUMBER: LER4DD50D010-EC4DR3540509030-4LBDP1B

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	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°	1202852
5°	1174587
10°	1058616
15°	821656
20°	466033
25°	181304
30°	67636
35°	37080
40°	24233
45°	14756
50°	9383
55°	6629
60°	4851
65°	2637
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14756 cd/sqm



TEST NUMBER: P785148

CATALOG NUMBER: LER4DD50D010-EC4DR3540509030-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	984.9	24.6
10°-20°	1923.1	48.1
20°-30°	784.3	19.6
30°-40°	187.7	4.7
40°-50°	78.2	2.0
50°-60°	32.4	0.8
60°-70°	10.1	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°	3692.3	92.3
0°-40°	3880.0	97.0
0°-60°	3990.5	99.7
0°-90°	4001.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4001.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11009	
5°	10709	985
15°	7264	1923
25°	1504	784
35°	278	188
45°	96	78
55°	35	32
65°	10	10
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P785148

CATALOG NUMBER: LER4DD50D010-EC4DR3540509030-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	11009.0
2.5°	10943.0
5°	10709.4
7.5°	10243.5
10°	9541.7
12.5°	8553.5
15°	7263.9
17.5°	5686.7
20°	4008.1
22.5°	2555.8
25°	1503.9
27.5°	850.1
30°	536.1
32.5°	376.4
35°	278.0
37.5°	214.9
40°	169.9
42.5°	130.9
45°	95.5
47.5°	71.4
50°	55.2
52.5°	43.8
55°	34.8
57.5°	28.2
60°	22.2
62.5°	16.2
65°	10.2
67.5°	3.6
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)