

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: P781580

Luminaire Tested: LER4D45BD010-EC4DR5040509040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781580
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: LER4D45BD010-EC4DR5040509040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4503.8 lumens
Efficiency: N/A
Efficacy: 116.4 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 (A_{in}): 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

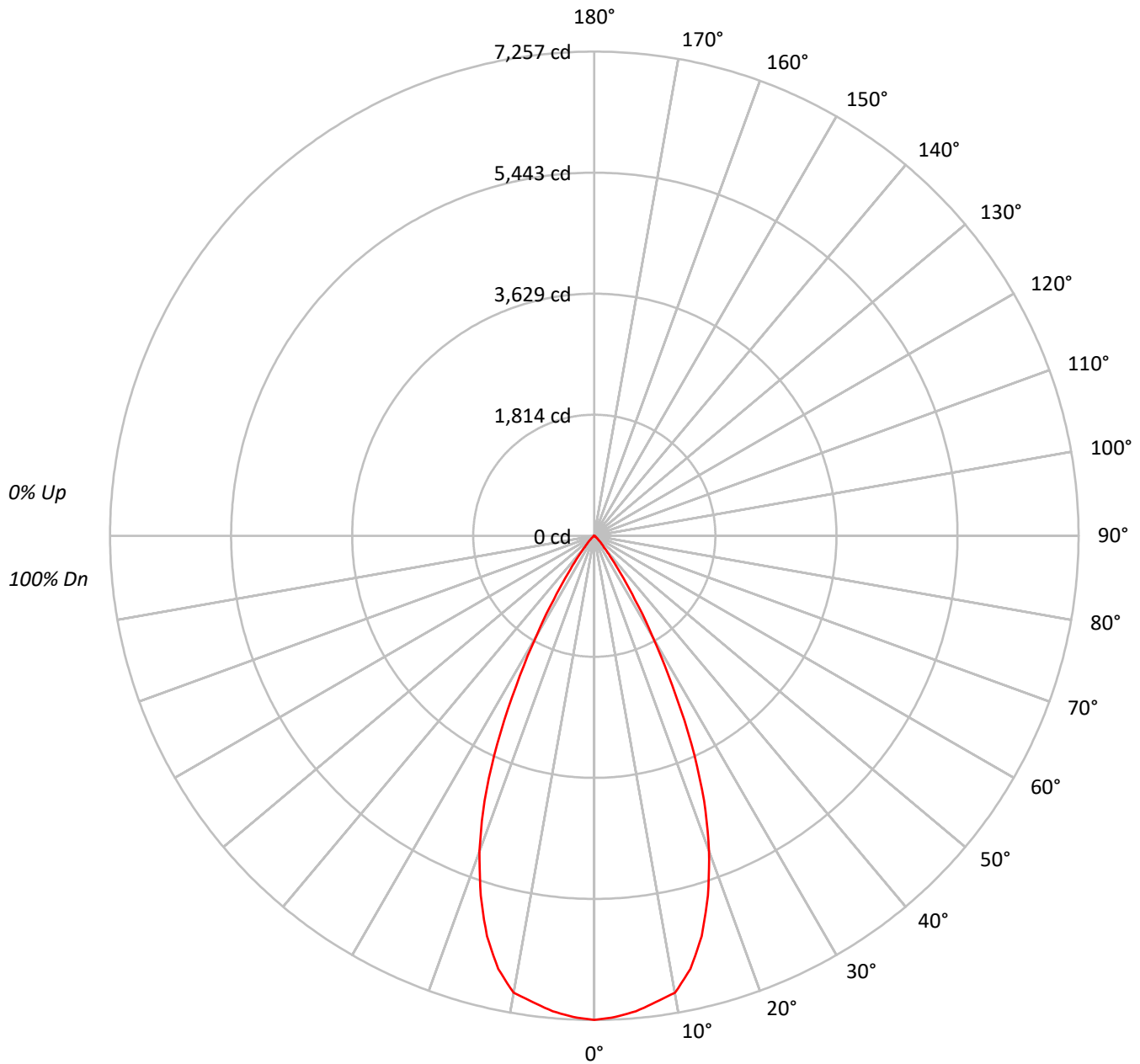


Downlight

TEST NUMBER: P781580

CATALOG NUMBER: LER4D45BD010-EC4DR5040509040-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P781580

CATALOG NUMBER: LER4D45BD010-EC4DR5040509040-4LBS1B

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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	114	112	109	107	112	110	108	106		106	104	102			102	101	99			95
2	109	105	101	98	107	103	100	97		100	98	95			97	95	93			90
3	105	99	95	91	103	98	94	90		95	92	89			93	90	88			85
4	100	94	89	85	99	93	88	85		90	87	84			89	85	83			80
5	96	89	84	80	95	88	83	79		86	82	79			85	81	78			76
6	92	84	79	75	91	83	79	75		82	78	74			81	77	74			72
7	88	80	75	71	87	79	74	71		78	74	71			77	73	70			69
8	85	76	71	67	84	76	71	67		75	70	67			74	70	67			65
9	81	73	68	64	80	72	67	64		71	67	64			71	67	64			62
10	78	70	64	61	77	69	64	61		68	64	61			68	64	61			59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	792873
5°	784560
10°	771642
15°	702648
20°	584678
25°	415038
30°	219676
35°	89527
40°	33247
45°	15220
50°	6238
55°	3257
60°	1595
65°	465
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15220 cd/sqm



TEST NUMBER: P781580

CATALOG NUMBER: LER4D45BD010-EC4DR5040509040-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.1	15.0
10°-20°	1708.7	37.9
20°-30°	1534.9	34.1
30°-40°	480.6	10.7
40°-50°	84.1	1.9
50°-60°	16.8	0.4
60°-70°	2.5	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°	3919.8	87.0
0°-40°	4400.3	97.7
0°-60°	4501.2	99.9
0°-90°	4503.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4503.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7257	
5°	7153	676
15°	6212	1709
25°	3443	1535
35°	671	481
45°	98	84
55°	17	17
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781580

CATALOG NUMBER: LER4D45BD010-EC4DR5040509040-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	7256.7
2.5°	7220.6
5°	7153.3
7.5°	7050.6
10°	6955.1
12.5°	6649.2
15°	6211.8
17.5°	5656.2
20°	5028.5
22.5°	4302.3
25°	3442.7
27.5°	2531.1
30°	1741.2
32.5°	1133.7
35°	671.2
37.5°	385.4
40°	233.1
42.5°	151.7
45°	98.5
47.5°	60.0
50°	36.7
52.5°	25.1
55°	17.1
57.5°	11.6
60°	7.3
62.5°	4.3
65°	1.8
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)