

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: P781585

Luminaire Tested: LER4D45BD010-EC4DR5040509050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781585
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-EC4DR5040509050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4793.7 lumens
Efficiency: N/A
Efficacy: 123.9 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

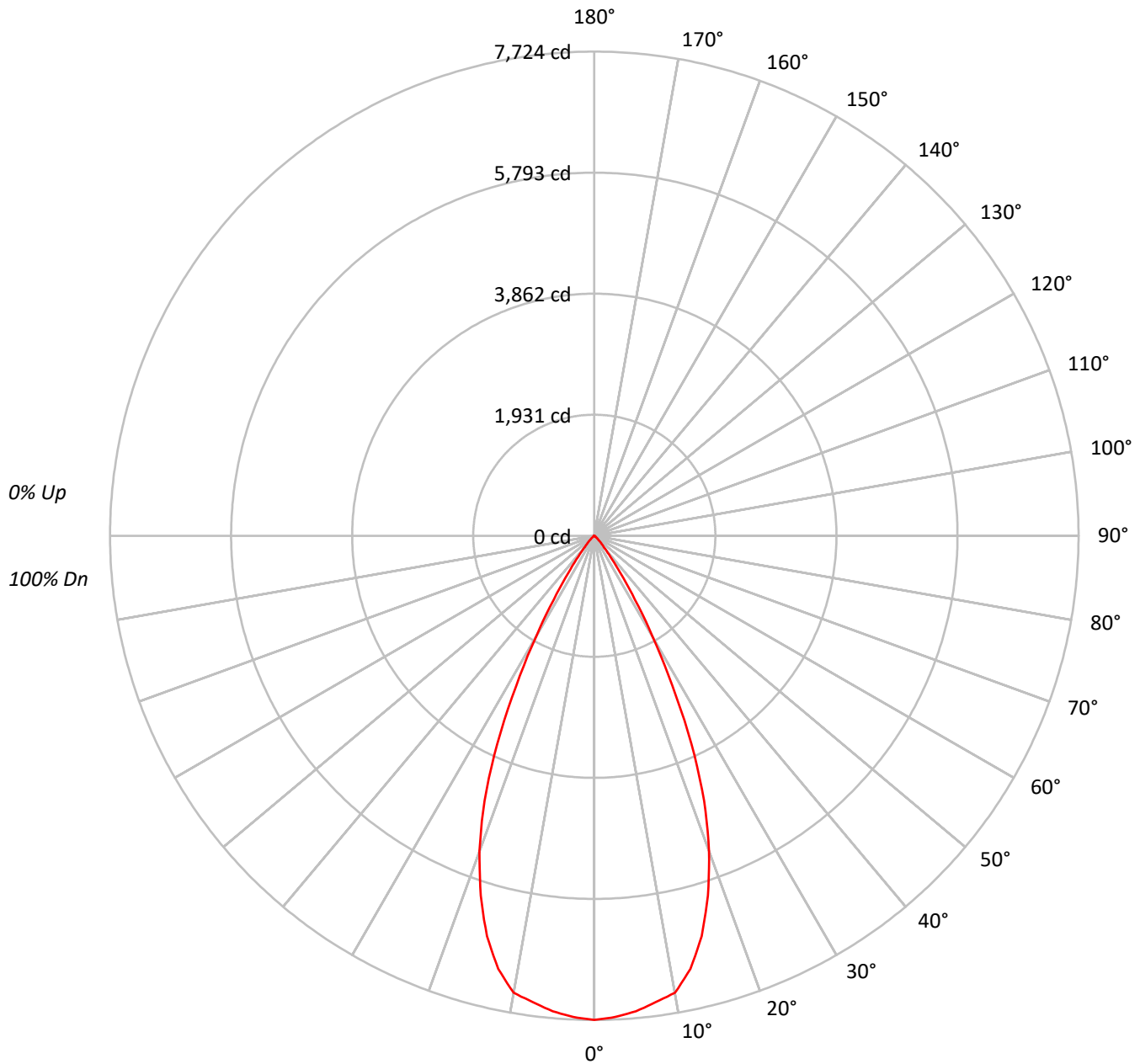


Downlight

TEST NUMBER: P781585

CATALOG NUMBER: LER4D45BD010-EC4DR5040509050-4LBS1H

Luminous Intensity Polar Plot



TEST NUMBER: P781585

CATALOG NUMBER: LER4D45BD010-EC4DR5040509050-4LBS1H

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	843919
5°	835067
10°	821313
15°	747872
20°	622316
25°	441753
30°	233819
35°	95289
40°	35386
45°	16193
50°	6646
55°	3467
60°	1704
65°	517
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16193 cd/sqm



TEST NUMBER: P781585

CATALOG NUMBER: LER4D45BD010-EC4DR5040509050-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.7	15.0
10°-20°	1818.7	37.9
20°-30°	1633.7	34.1
30°-40°	511.5	10.7
40°-50°	89.6	1.9
50°-60°	17.9	0.4
60°-70°	2.7	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°	4172.1	87.0
0°-40°	4683.6	97.7
0°-60°	4791.0	99.9
0°-90°	4793.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4793.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7724	
5°	7614	720
15°	6612	1819
25°	3664	1634
35°	714	512
45°	105	90
55°	18	18
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781585

CATALOG NUMBER: LER4D45BD010-EC4DR5040509050-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	7723.9
2.5°	7685.4
5°	7613.8
7.5°	7504.4
10°	7402.8
12.5°	7077.2
15°	6611.6
17.5°	6020.3
20°	5352.2
22.5°	4579.2
25°	3664.3
27.5°	2694.0
30°	1853.3
32.5°	1206.7
35°	714.4
37.5°	410.3
40°	248.1
42.5°	161.5
45°	104.8
47.5°	63.8
50°	39.1
52.5°	26.7
55°	18.2
57.5°	12.4
60°	7.8
62.5°	4.6
65°	2.0
67.5°	0.7
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°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report







(END OF REPORT)