

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: P781512

Luminaire Tested: LER4D45BD010-EC4DR3540509050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781512
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: LER4D45BD010-EC4DR3540509050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4106.4 lumens
Efficiency: N/A
Efficacy: 106.1 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): 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

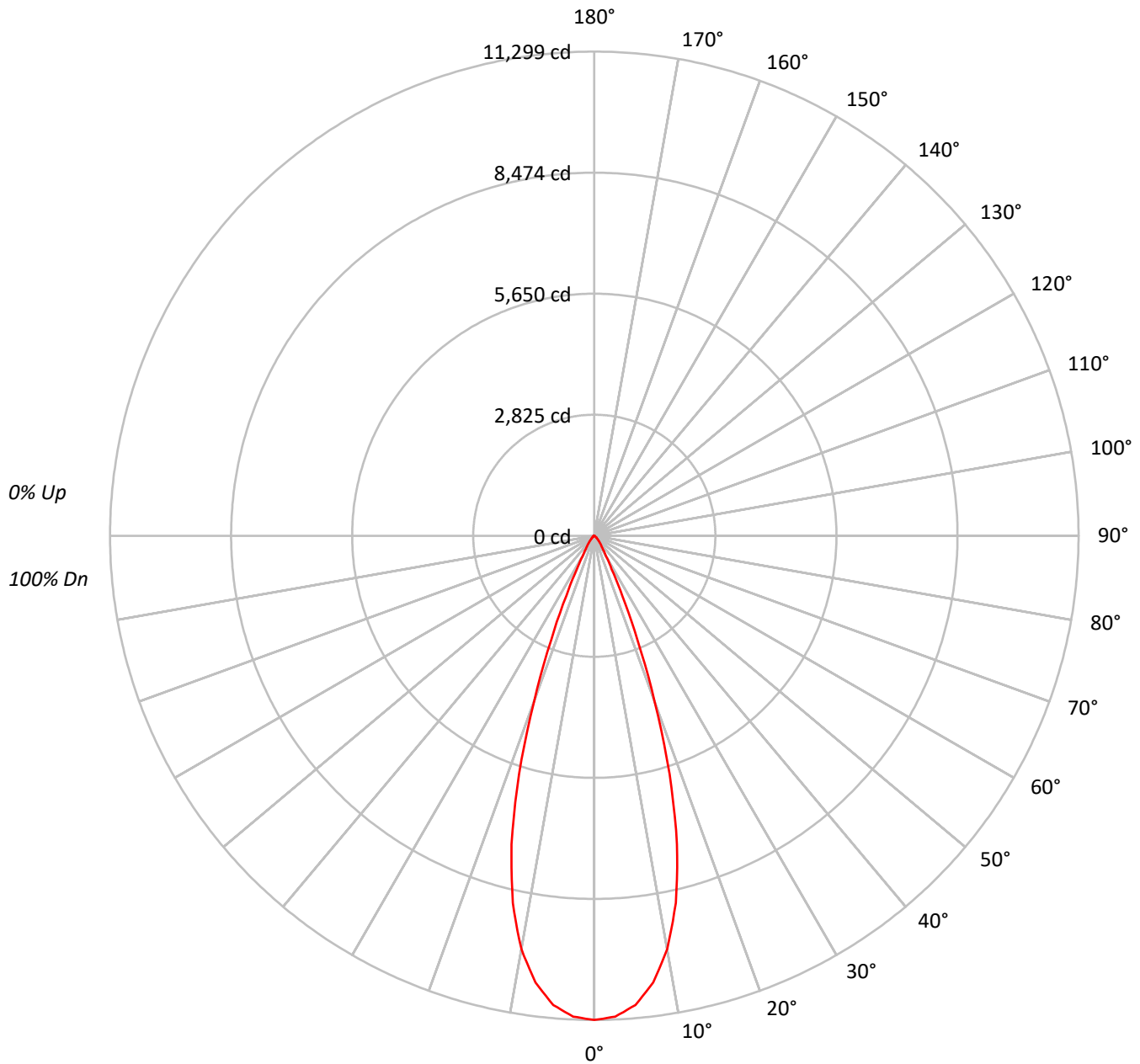


Downlight

TEST NUMBER: P781512

CATALOG NUMBER: LER4D45BD010-EC4DR3540509050-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P781512

CATALOG NUMBER: LER4D45BD010-EC4DR3540509050-4LBS1B

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	112	110	108		112	110	108	107		106	105	103		103	101	100		99	98	98
2	110	106	103	101		108	105	102	99		102	99	97		99	97	95		96	95	93
3	106	101	97	94		105	100	96	93		97	95	92		95	93	91		93	91	89
4	103	97	92	89		101	96	92	89		94	90	88		92	89	87		90	88	86
5	99	93	88	85		98	92	87	84		90	86	84		89	85	83		87	84	82
6	96	89	84	81		94	88	84	81		87	83	80		85	82	80		84	81	79
7	93	85	81	78		91	85	80	77		84	80	77		83	79	77		82	79	76
8	90	82	78	74		88	82	77	74		81	77	74		80	76	74		79	76	73
9	87	79	75	72		86	79	75	72		78	74	71		77	74	71		77	73	71
10	84	77	72	69		83	76	72	69		76	72	69		75	71	69		74	71	69

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1234526
5°	1205516
10°	1086486
15°	843284
20°	478300
25°	186078
30°	69415
35°	38054
40°	24875
45°	15143
50°	9638
55°	6801
60°	4982
65°	2715
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15143 cd/sqm



TEST NUMBER: P781512

CATALOG NUMBER: LER4D45BD010-EC4DR3540509050-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1010.9	24.6
10°-20°	1973.7	48.1
20°-30°	804.9	19.6
30°-40°	192.6	4.7
40°-50°	80.3	2.0
50°-60°	33.2	0.8
60°-70°	10.4	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°	3789.5	92.3
0°-40°	3982.1	97.0
0°-60°	4095.6	99.7
0°-90°	4106.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4106.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11299	
5°	10991	###
15°	7455	1974
25°	1544	805
35°	285	193
45°	98	80
55°	36	33
65°	10	10
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781512

CATALOG NUMBER: LER4D45BD010-EC4DR3540509050-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	11298.9
2.5°	11231.1
5°	10991.4
7.5°	10513.2
10°	9792.9
12.5°	8778.7
15°	7455.1
17.5°	5836.4
20°	4113.6
22.5°	2623.1
25°	1543.5
27.5°	872.5
30°	550.2
32.5°	386.3
35°	285.3
37.5°	220.6
40°	174.4
42.5°	134.3
45°	98.0
47.5°	73.3
50°	56.7
52.5°	45.0
55°	35.7
57.5°	29.0
60°	22.8
62.5°	16.6
65°	10.5
67.5°	3.7
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)