

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: P781597

Luminaire Tested: LER4D45BD010-EC4DR5540509030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D45BD010-EC4DR5540509030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4435.5 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87
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

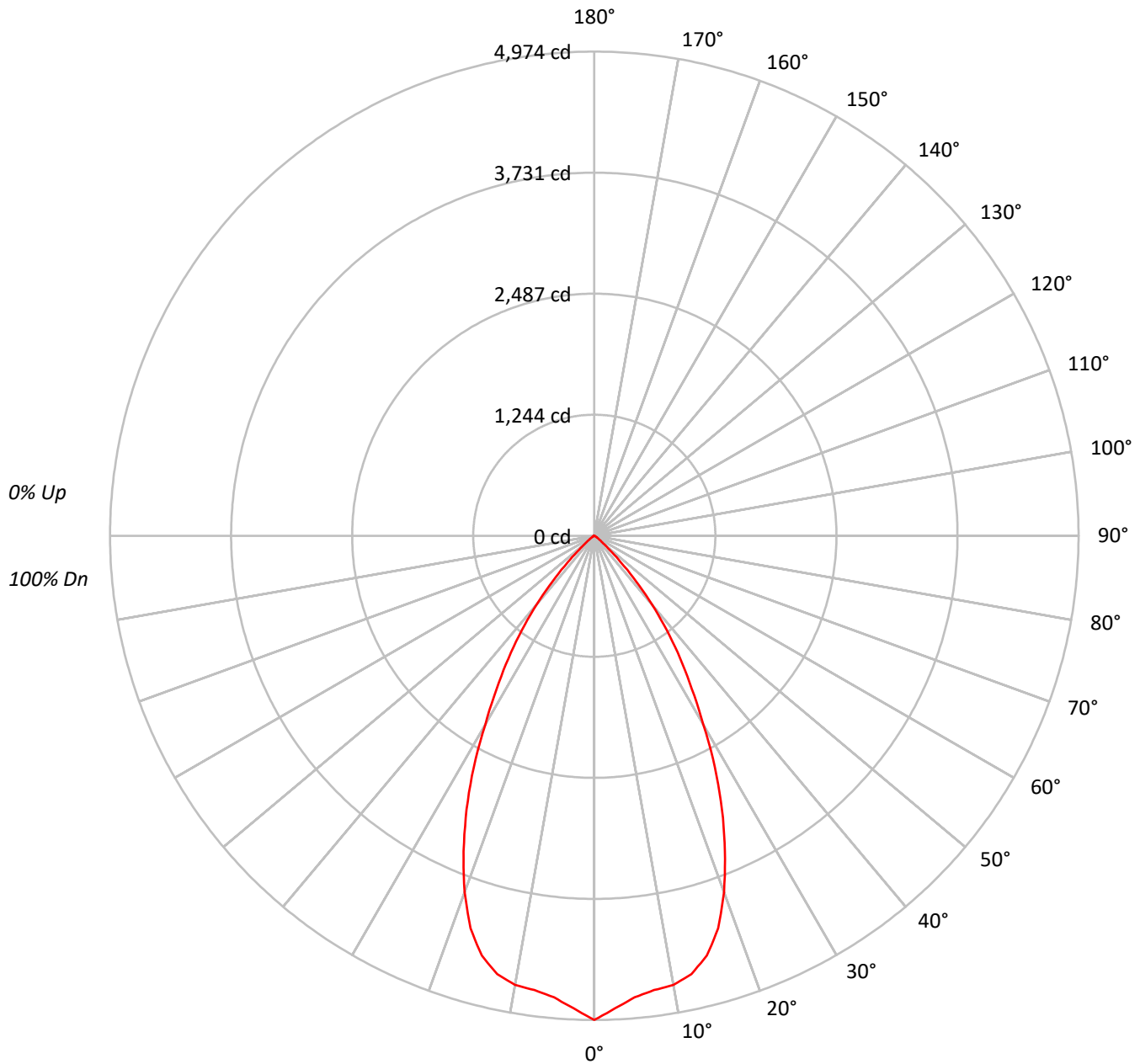


Downlight

TEST NUMBER: P781597

CATALOG NUMBER: LER4D45BD010-EC4DR5540509030-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P781597

CATALOG NUMBER: LER4D45BD010-EC4DR5540509030-4LBS1H

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	111	108	106		111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96		106	101	98	95		98	95	92		95	93	90		92	90	89
3	102	96	91	87		100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80		95	88	83	79		86	82	78		84	81	78		82	79	77
5	92	84	78	74		91	83	77	73		81	76	73		79	75	72		78	74	71
6	88	79	73	68		86	78	72	68		76	71	68		75	70	67		74	70	67
7	83	74	68	64		82	73	67	63		72	67	63		71	66	63		70	65	62
8	79	69	63	59		78	69	63	59		68	63	59		67	62	59		66	62	58
9	75	66	60	56		74	65	59	55		64	59	55		63	58	55		62	58	55
10	72	62	56	52		71	61	56	52		61	56	52		60	55	52		59	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	543441
5°	521848
10°	519883
15°	504957
20°	452767
25°	374181
30°	282644
35°	204943
40°	131162
45°	59907
50°	19599
55°	8458
60°	3627
65°	465
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 59907 cd/sqm



TEST NUMBER: P781597

CATALOG NUMBER: LER4D45BD010-EC4DR5540509030-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.8	10.2
10°-20°	1235.7	27.9
20°-30°	1408.1	31.7
30°-40°	958.6	21.6
40°-50°	330.3	7.4
50°-60°	45.7	1.0
60°-70°	4.4	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°	3096.5	69.8
0°-40°	4055.1	91.4
0°-60°	4431.1	99.9
0°-90°	4435.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4435.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4974	
5°	4758	453
15°	4464	1236
25°	3104	1408
35°	1536	959
45°	388	330
55°	44	46
65°	2	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781597

CATALOG NUMBER: LER4D45BD010-EC4DR5540509030-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	4973.8
2.5°	4859.7
5°	4758.0
7.5°	4708.1
10°	4685.9
12.5°	4612.0
15°	4464.1
17.5°	4229.2
20°	3894.0
22.5°	3506.9
25°	3103.8
27.5°	2684.1
30°	2240.3
32.5°	1864.4
35°	1536.5
37.5°	1224.6
40°	919.6
42.5°	637.3
45°	387.7
47.5°	208.9
50°	115.3
52.5°	68.4
55°	44.4
57.5°	28.4
60°	16.6
62.5°	7.4
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)