

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: P781589

Luminaire Tested: LER4D45BD010-EC4DR5540509024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781589
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-EC4DR5540509024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3800.8 lumens
Efficiency: N/A
Efficacy: 98.2 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 (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

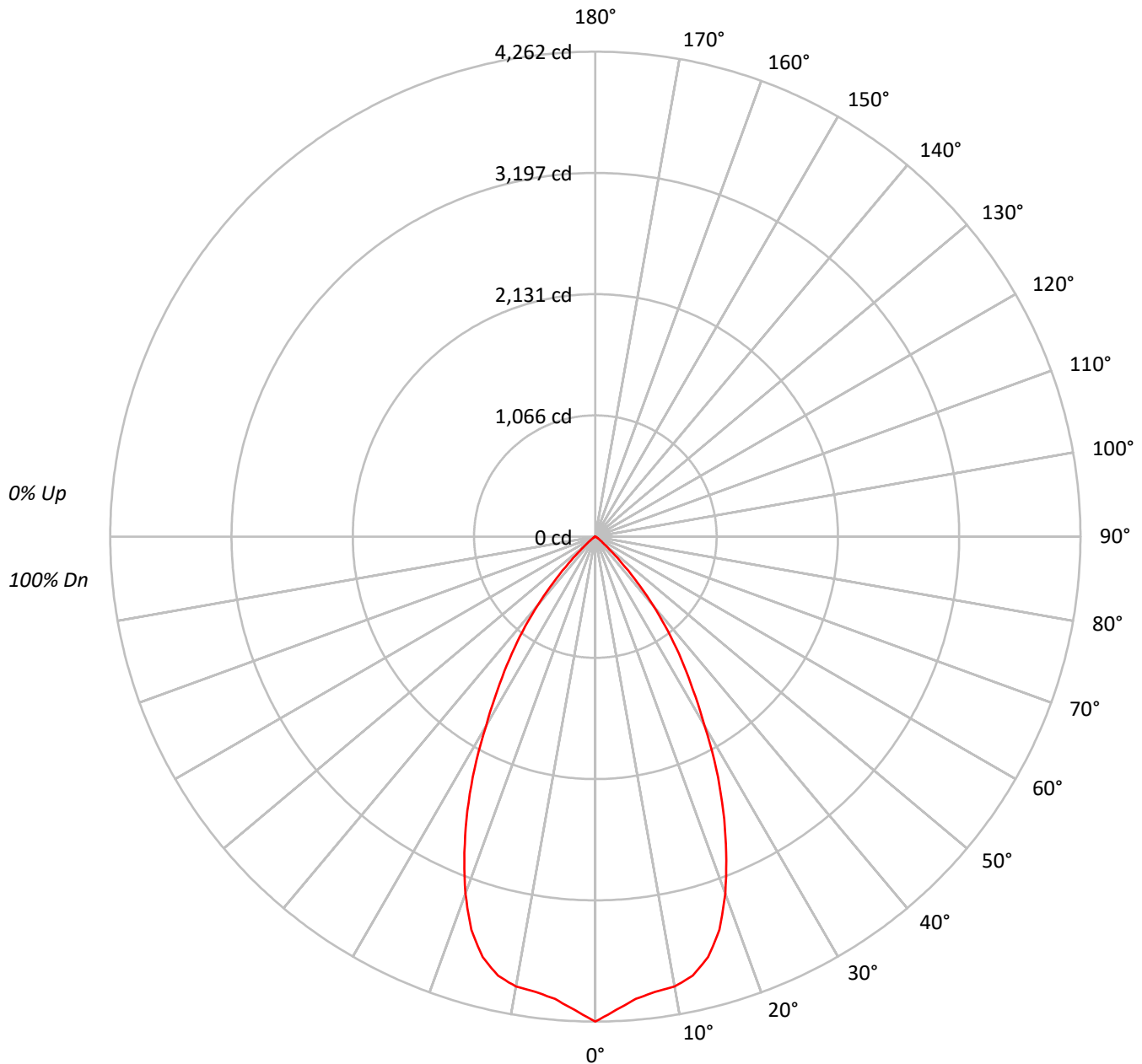


Downlight

TEST NUMBER: P781589

CATALOG NUMBER: LER4D45BD010-EC4DR5540509024-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P781589

CATALOG NUMBER: LER4D45BD010-EC4DR5540509024-4LBS1H

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°	465669
5°	447169
10°	445483
15°	432688
20°	387968
25°	320630
30°	242196
35°	175612
40°	112392
45°	51331
50°	16794
55°	7239
60°	3125
65°	414
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 51331 cd/sqm



TEST NUMBER: P781589

CATALOG NUMBER: LER4D45BD010-EC4DR5540509024-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.0	10.2
10°-20°	1058.8	27.9
20°-30°	1206.6	31.7
30°-40°	821.4	21.6
40°-50°	283.1	7.4
50°-60°	39.1	1.0
60°-70°	3.8	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°	2653.4	69.8
0°-40°	3474.8	91.4
0°-60°	3797.0	99.9
0°-90°	3800.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3800.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4262	
5°	4077	388
15°	3825	1059
25°	2660	1207
35°	1317	821
45°	332	283
55°	38	39
65°	2	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781589

CATALOG NUMBER: LER4D45BD010-EC4DR5540509024-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	4262.0
2.5°	4164.3
5°	4077.1
7.5°	4034.3
10°	4015.3
12.5°	3952.0
15°	3825.2
17.5°	3624.0
20°	3336.7
22.5°	3005.0
25°	2659.6
27.5°	2300.0
30°	1919.7
32.5°	1597.6
35°	1316.6
37.5°	1049.4
40°	788.0
42.5°	546.1
45°	332.2
47.5°	179.0
50°	98.8
52.5°	58.6
55°	38.0
57.5°	24.3
60°	14.3
62.5°	6.3
65°	1.6
67.5°	0.5
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)