

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: P748933

Luminaire Tested: LD4D45BD010-EU4DR7040509024-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR7040509024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3564.3 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

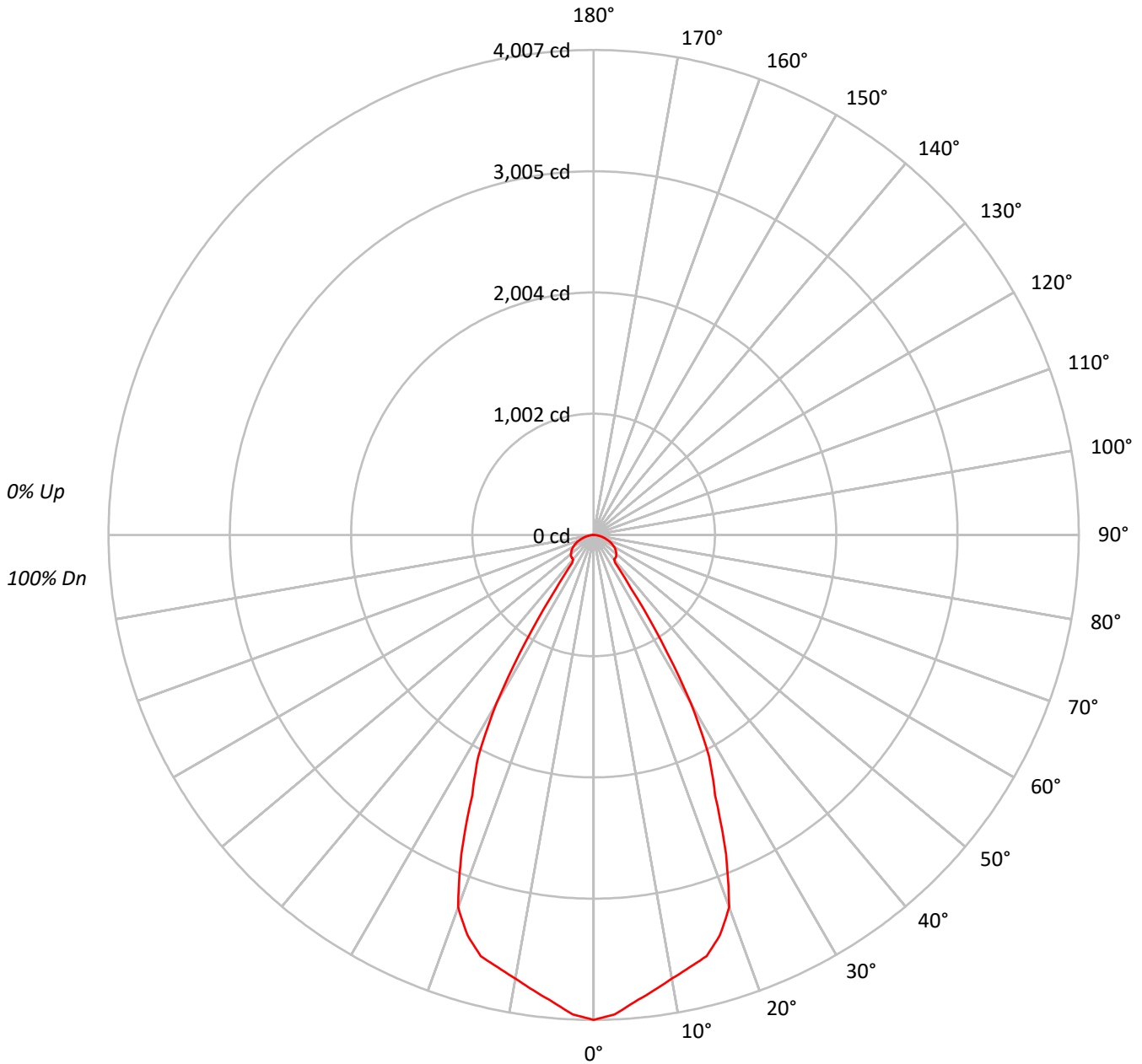
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P748933
CATALOG NUMBER: LD4D45BD010-EU4DR7040509024-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P748933

CATALOG NUMBER: LD4D45BD010-EU4DR7040509024-4LBDP1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100																			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	437841
5°	424827
10°	412986
15°	407565
20°	380584
25°	285910
30°	202114
35°	71600
40°	37640
45°	40097
50°	41526
55°	42308
60°	42568
65°	41676
70°	39325
75°	36432
80°	32341
85°	26201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 42582 cd/sqm



TEST NUMBER: P748933

CATALOG NUMBER: LD4D45BD010-EU4DR7040509024-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.3	10.2
10°-20°	1002.1	28.1
20°-30°	1103.7	31.0
30°-40°	421.7	11.8
40°-50°	199.1	5.6
50°-60°	198.0	5.6
60°-70°	158.5	4.4
70°-80°	91.1	2.6
80°-90°	24.8	0.7
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°	2471.2	69.3
0°-40°	2892.9	81.2
0°-60°	3290.0	92.3
0°-90°	3564.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3564.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4007	
5°	3873	365
15°	3603	1002
25°	2372	1104
35°	537	422
45°	260	199
55°	222	198
65°	161	159
75°	86	91
85°	21	25
90°	0	



TEST NUMBER: P748933

CATALOG NUMBER: LD4D45BD010-EU4DR7040509024-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	4007.3
2.5°	3965.4
5°	3873.4
7.5°	3796.6
10°	3722.4
12.5°	3659.6
15°	3603.1
17.5°	3466.7
20°	3273.2
22.5°	2855.7
25°	2371.6
27.5°	2064.6
30°	1602.0
32.5°	1034.8
35°	536.8
37.5°	290.0
40°	263.9
42.5°	262.0
45°	259.5
47.5°	253.8
50°	244.3
52.5°	233.5
55°	222.1
57.5°	209.4
60°	194.8
62.5°	178.3
65°	161.2
67.5°	142.1
70°	123.1
72.5°	104.1
75°	86.3
77.5°	67.9
80°	51.4
82.5°	36.2
85°	20.9
87.5°	8.2
90°	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)