

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: P748803

Luminaire Tested: LD4D45BD010-EU4DR6040509030-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR6040509030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4132.5 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
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

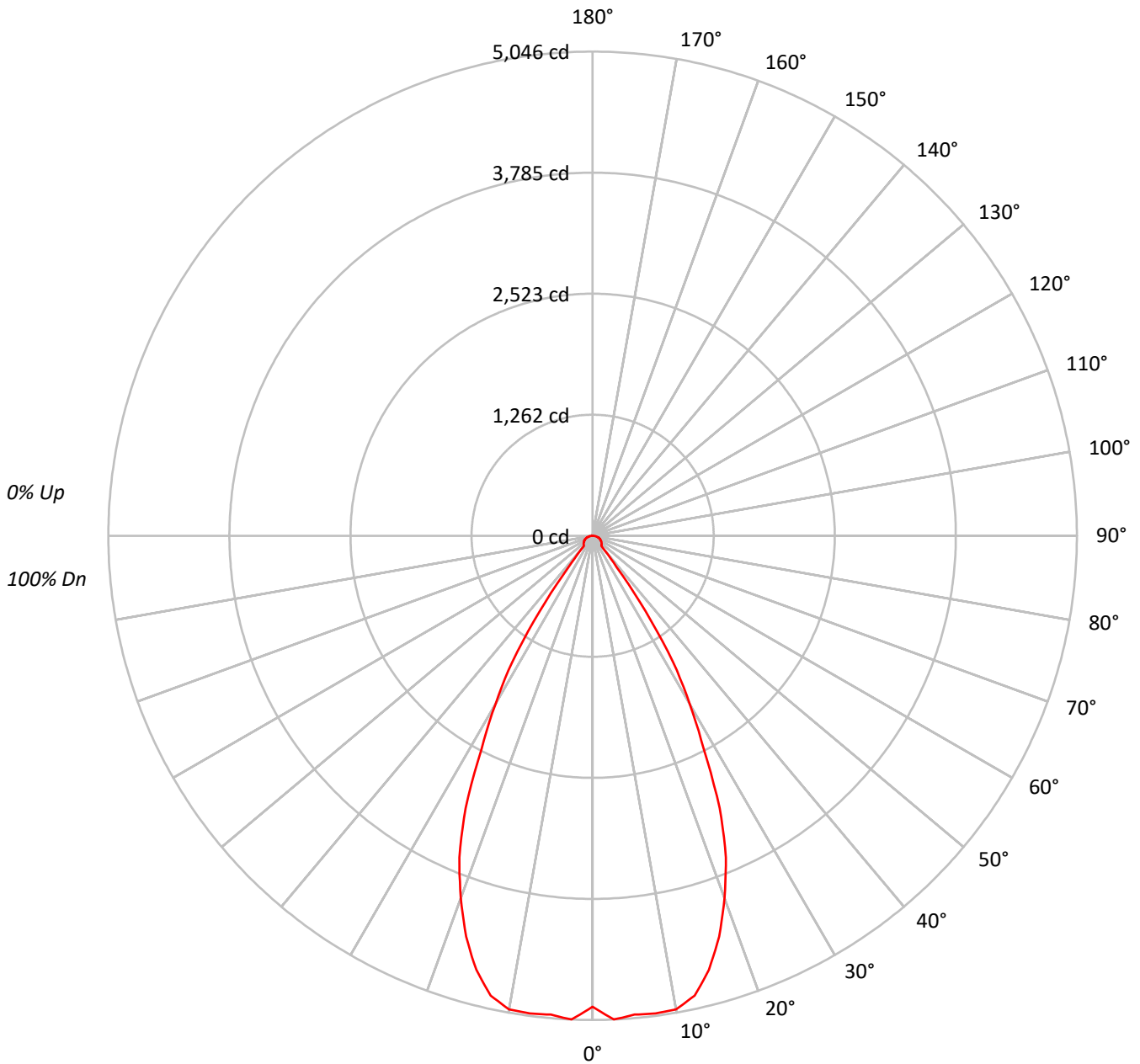


Downlight

TEST NUMBER: P748803

CATALOG NUMBER: LD4D45BD010-EU4DR6040509030-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P748803

CATALOG NUMBER: LD4D45BD010-EU4DR6040509030-4LBDP1H

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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	536230
5°	549422
10°	556052
15°	529718
20°	467045
25°	377762
30°	255519
35°	128047
40°	20767
45°	20335
50°	20738
55°	21049
60°	21634
65°	22130
70°	22650
75°	22923
80°	22085
85°	18428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 22923 cd/sqm



TEST NUMBER: P748803

CATALOG NUMBER: LD4D45BD010-EU4DR6040509030-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.8	11.6
10°-20°	1295.3	31.3
20°-30°	1393.7	33.7
30°-40°	605.8	14.7
40°-50°	101.7	2.5
50°-60°	98.9	2.4
60°-70°	84.6	2.0
70°-80°	56.6	1.4
80°-90°	16.9	0.4
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°	3167.8	76.7
0°-40°	3773.6	91.3
0°-60°	3974.3	96.2
0°-90°	4132.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4132.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4908	
5°	5009	479
15°	4683	1295
25°	3134	1394
35°	960	606
45°	132	102
55°	110	99
65°	86	85
75°	54	57
85°	15	17
90°	0	



TEST NUMBER: P748803

CATALOG NUMBER: LD4D45BD010-EU4DR6040509030-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	4907.8
2.5°	5045.8
5°	5009.4
7.5°	5020.9
10°	5011.9
12.5°	4908.5
15°	4683.0
17.5°	4380.3
20°	4016.8
22.5°	3627.9
25°	3133.5
27.5°	2506.3
30°	2025.3
32.5°	1561.0
35°	960.0
37.5°	410.7
40°	145.6
42.5°	134.1
45°	131.6
47.5°	127.1
50°	122.0
52.5°	116.2
55°	110.5
57.5°	104.7
60°	99.0
62.5°	92.6
65°	85.6
67.5°	78.6
70°	70.9
72.5°	62.6
75°	54.3
77.5°	44.7
80°	35.1
82.5°	24.9
85°	14.7
87.5°	5.1
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)