

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: P748978

Luminaire Tested: LD4D45BD010-EU4DR7040509035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR7040509035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4201.5 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

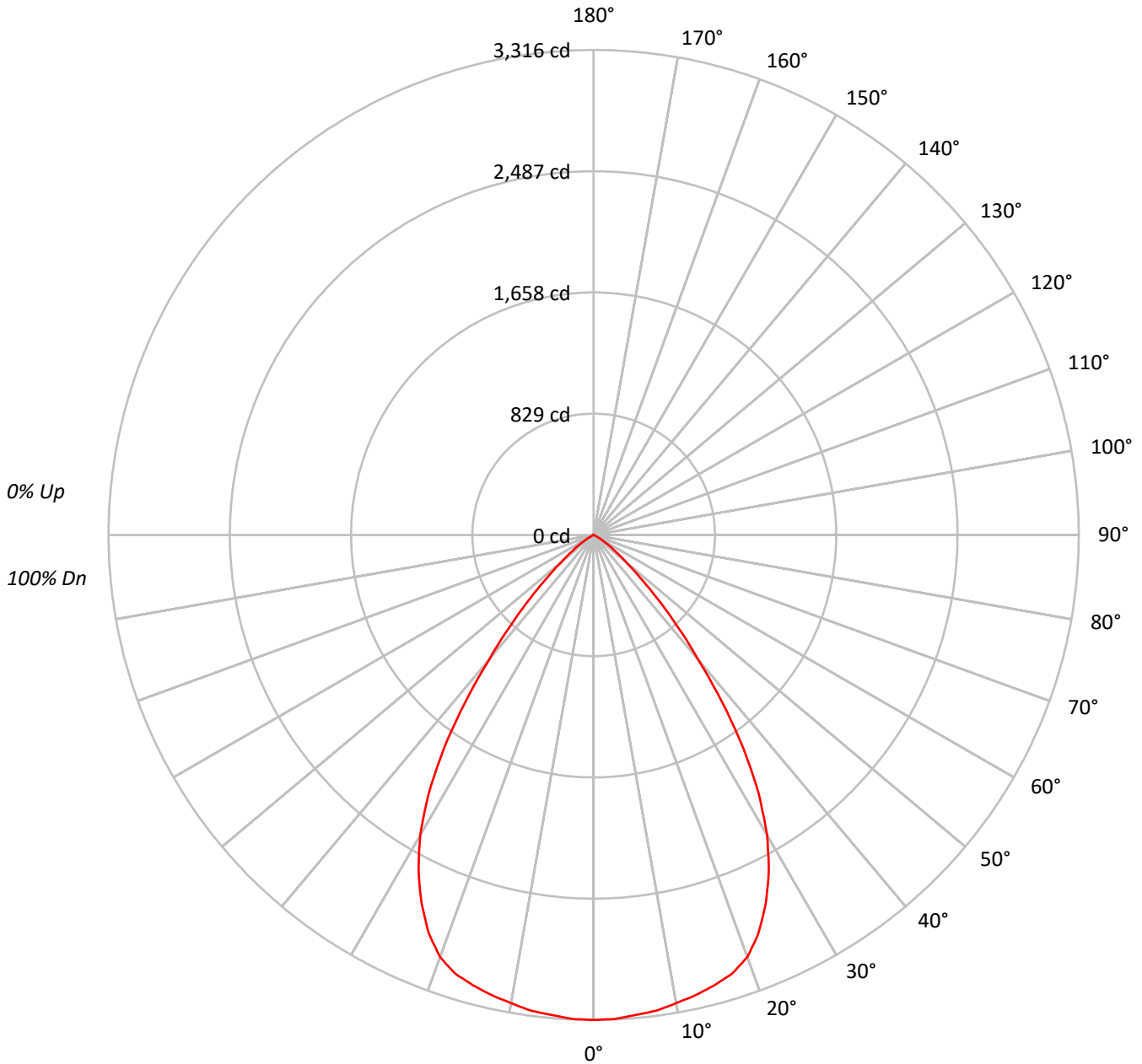
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P748978
CATALOG NUMBER: LD4D45BD010-EU4DR7040509035-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P748978

CATALOG NUMBER: LD4D45BD010-EU4DR7040509035-4LBS1MW

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				100															
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93				93															
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85				85															
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78				78															
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71				71															
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65				65															
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60				60															
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56				56															
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51				51															
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48				48															
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44				44															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	362331
5°	361422
10°	360642
15°	360543
20°	357016
25°	335374
30°	298982
35°	238382
40°	158291
45°	94627
50°	49056
55°	25792
60°	9112
65°	155
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 94627 cd/sqm



TEST NUMBER: P748978

CATALOG NUMBER: LD4D45BD010-EU4DR7040509035-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.4	7.5
10°-20°	898.8	21.4
20°-30°	1267.9	30.2
30°-40°	1094.6	26.1
40°-50°	490.2	11.7
50°-60°	128.3	3.1
60°-70°	8.3	0.2
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°	2480.1	59.0
0°-40°	3574.7	85.1
0°-60°	4193.2	99.8
0°-90°	4201.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4201.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3316	
5°	3295	313
15°	3187	899
25°	2782	1268
35°	1787	1095
45°	612	490
55°	135	128
65°	1	8
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P748978

CATALOG NUMBER: LD4D45BD010-EU4DR7040509035-4LBS1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	3316.2
2.5°	3312.6
5°	3295.3
7.5°	3281.0
10°	3250.6
12.5°	3223.2
15°	3187.4
17.5°	3146.2
20°	3070.5
22.5°	2945.9
25°	2781.9
27.5°	2591.7
30°	2369.8
32.5°	2098.5
35°	1787.2
37.5°	1443.7
40°	1109.8
42.5°	843.2
45°	612.4
47.5°	422.2
50°	288.6
52.5°	199.2
55°	135.4
57.5°	81.7
60°	41.7
62.5°	13.1
65°	0.6
67.5°	0.0
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

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)