

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: P748818

Luminaire Tested: LD4D45BD010-EU4DR6040509035-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748818
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-EU4DR6040509035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3781.8 lumens
Efficiency: N/A
Efficacy: 97.7 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

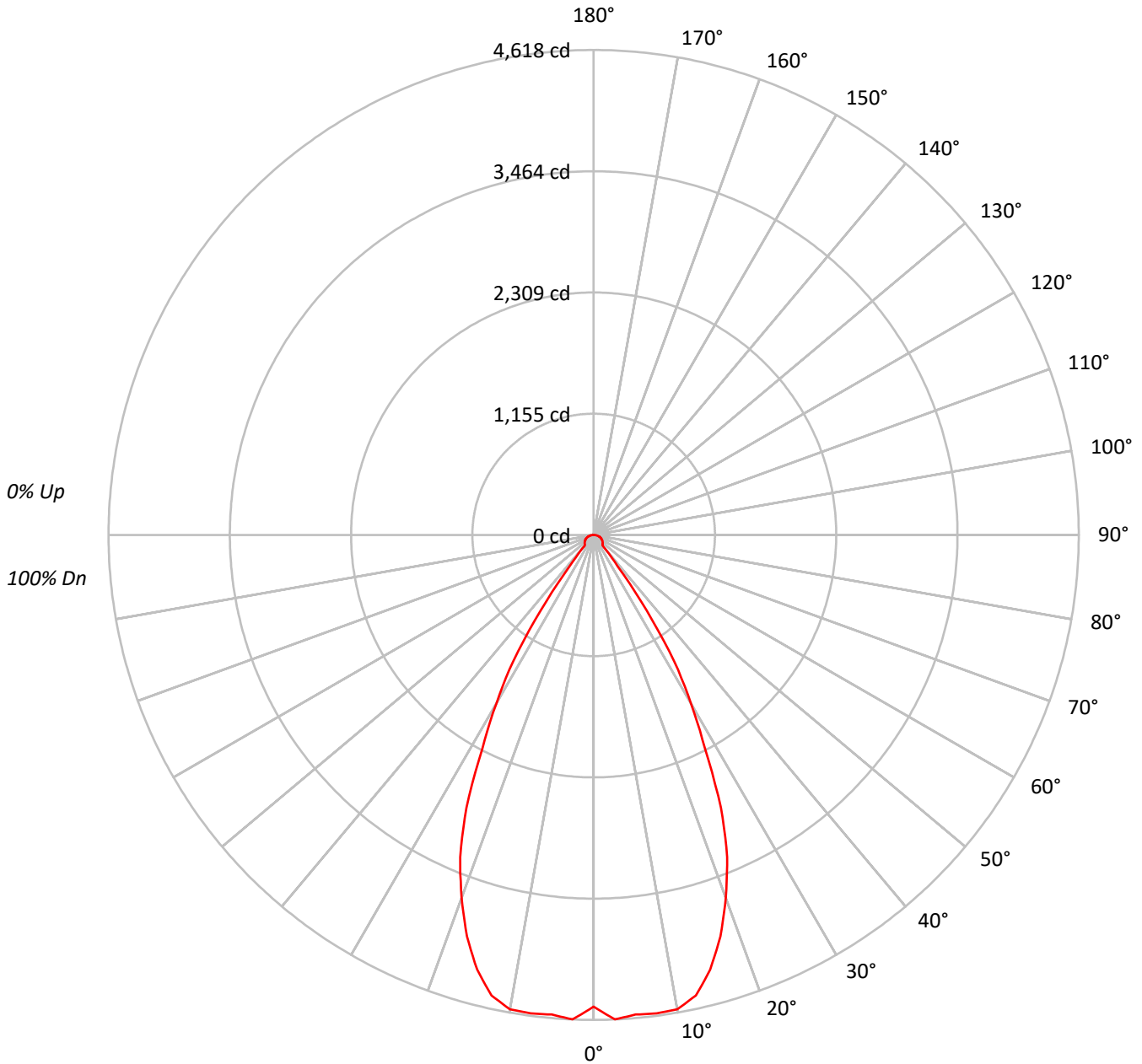
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P748818
CATALOG NUMBER: LD4D45BD010-EU4DR6040509035-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P748818

CATALOG NUMBER: LD4D45BD010-EU4DR6040509035-4LBDP1MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	490734
5°	502797
10°	508877
15°	484766
20°	427419
25°	345706
30°	233844
35°	117177
40°	19013
45°	18604
50°	18970
55°	19259
60°	19798
65°	20243
70°	20733
75°	20981
80°	20198
85°	16799

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 20981 cd/sqm



TEST NUMBER: P748818

CATALOG NUMBER: LD4D45BD010-EU4DR6040509035-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.1	11.6
10°-20°	1185.4	31.3
20°-30°	1275.4	33.7
30°-40°	554.4	14.7
40°-50°	93.1	2.5
50°-60°	90.5	2.4
60°-70°	77.4	2.0
70°-80°	51.8	1.4
80°-90°	15.5	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°	2899.0	76.7
0°-40°	3453.4	91.3
0°-60°	3637.0	96.2
0°-90°	3781.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3781.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4491	
5°	4584	438
15°	4286	1185
25°	2868	1275
35°	878	554
45°	120	93
55°	101	91
65°	78	77
75°	50	52
85°	13	15
90°	0	



TEST NUMBER: P748818

CATALOG NUMBER: LD4D45BD010-EU4DR6040509035-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4491.4
2.5°	4617.7
5°	4584.3
7.5°	4594.9
10°	4586.7
12.5°	4492.0
15°	4285.6
17.5°	4008.6
20°	3676.0
22.5°	3320.0
25°	2867.6
27.5°	2293.6
30°	1853.5
32.5°	1428.5
35°	878.5
37.5°	375.8
40°	133.3
42.5°	122.7
45°	120.4
47.5°	116.3
50°	111.6
52.5°	106.4
55°	101.1
57.5°	95.9
60°	90.6
62.5°	84.8
65°	78.3
67.5°	71.9
70°	64.9
72.5°	57.3
75°	49.7
77.5°	40.9
80°	32.1
82.5°	22.8
85°	13.4
87.5°	4.7
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)