

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: P755019

Luminaire Tested: LD4D85BD010-EU4DR6070959024-4LBDP1MW

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755019  
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: LD4D85BD010-EU4DR6070959024-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6304.9 lumens  
Efficiency: N/A  
Efficacy: 71.9 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

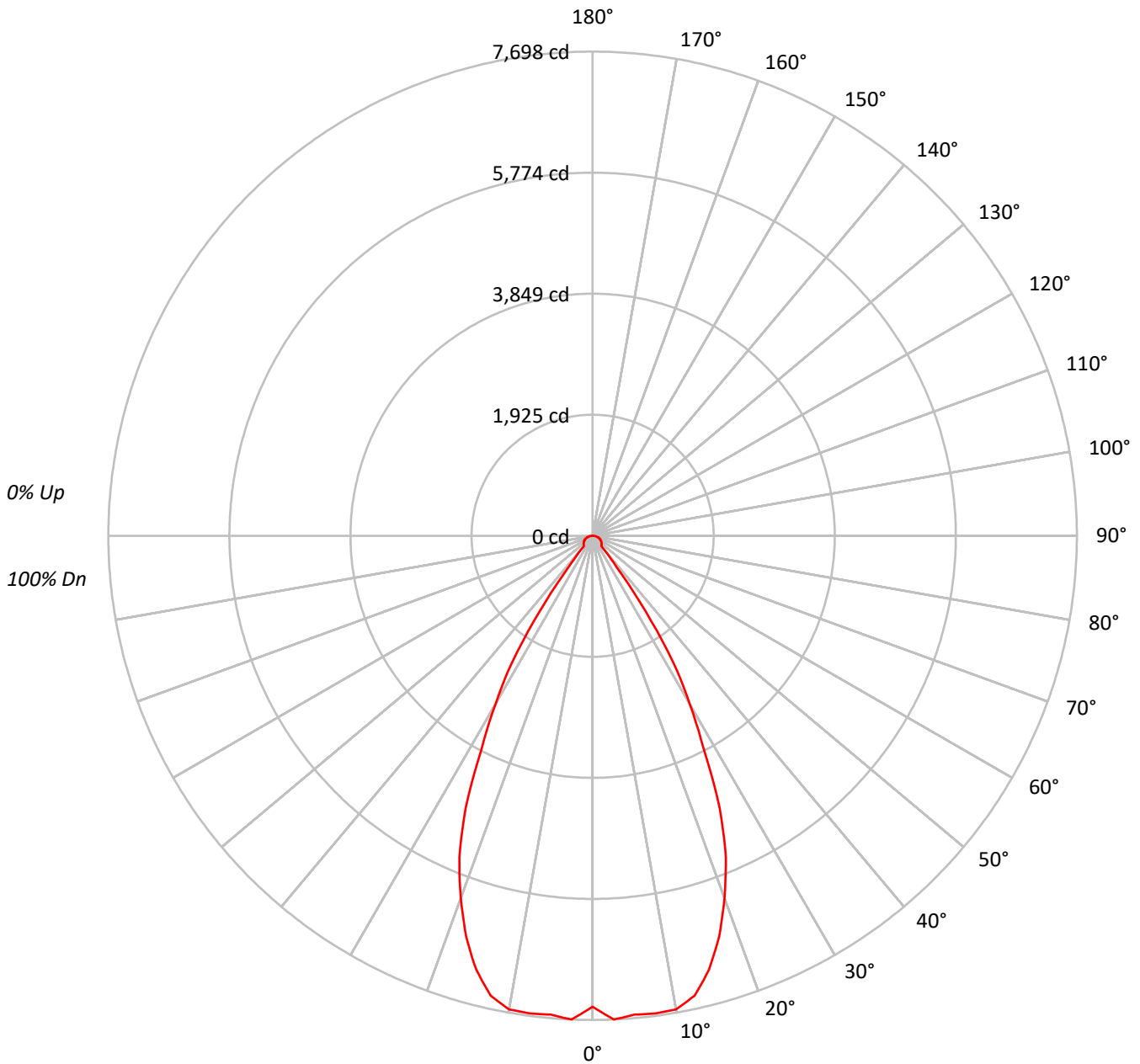
Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P755019  
CATALOG NUMBER: LD4D85BD010-EU4DR6070959024-4LBDP1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P755019

CATALOG NUMBER: LD4D85BD010-EU4DR6070959024-4LBDP1MW

**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°	818145
5°	838259
10°	848384
15°	808196
20°	712578
25°	576354
30°	389858
35°	195366
40°	31692
45°	31012
50°	31633
55°	32117
60°	32997
65°	33764
70°	34565
75°	34954
80°	33726
85°	28081

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 75°  
 Luminance: 34954 cd/sqm



TEST NUMBER: P755019

CATALOG NUMBER: LD4D85BD010-EU4DR6070959024-4LBDP1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	730.5	11.6
10°-20°	1976.3	31.3
20°-30°	2126.4	33.7
30°-40°	924.3	14.7
40°-50°	155.2	2.5
50°-60°	150.9	2.4
60°-70°	129.1	2.0
70°-80°	86.4	1.4
80°-90°	25.8	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°	4833.2	76.7
0°-40°	5757.4	91.3
0°-60°	6063.6	96.2
0°-90°	6304.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6304.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7488	
5°	7643	730
15°	7145	1976
25°	4781	2126
35°	1465	924
45°	201	155
55°	169	151
65°	131	129
75°	83	86
85°	22	26
90°	0	



TEST NUMBER: P755019

CATALOG NUMBER: LD4D85BD010-EU4DR6070959024-4LBDP1MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7488.0
2.5°	7698.4
5°	7642.9
7.5°	7660.4
10°	7646.8
12.5°	7488.9
15°	7144.9
17.5°	6683.0
20°	6128.5
22.5°	5535.1
25°	4780.8
27.5°	3823.9
30°	3090.1
32.5°	2381.6
35°	1464.7
37.5°	626.6
40°	222.2
42.5°	204.6
45°	200.7
47.5°	193.9
50°	186.1
52.5°	177.4
55°	168.6
57.5°	159.8
60°	151.0
62.5°	141.3
65°	130.6
67.5°	119.9
70°	108.2
72.5°	95.5
75°	82.8
77.5°	68.2
80°	53.6
82.5°	38.0
85°	22.4
87.5°	7.8
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)