

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: P754692

Luminaire Tested: LD4D85BD010-EU4DR3570959050-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754692  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D85BD010-EU4DR3570959050-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 35° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8244.2 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

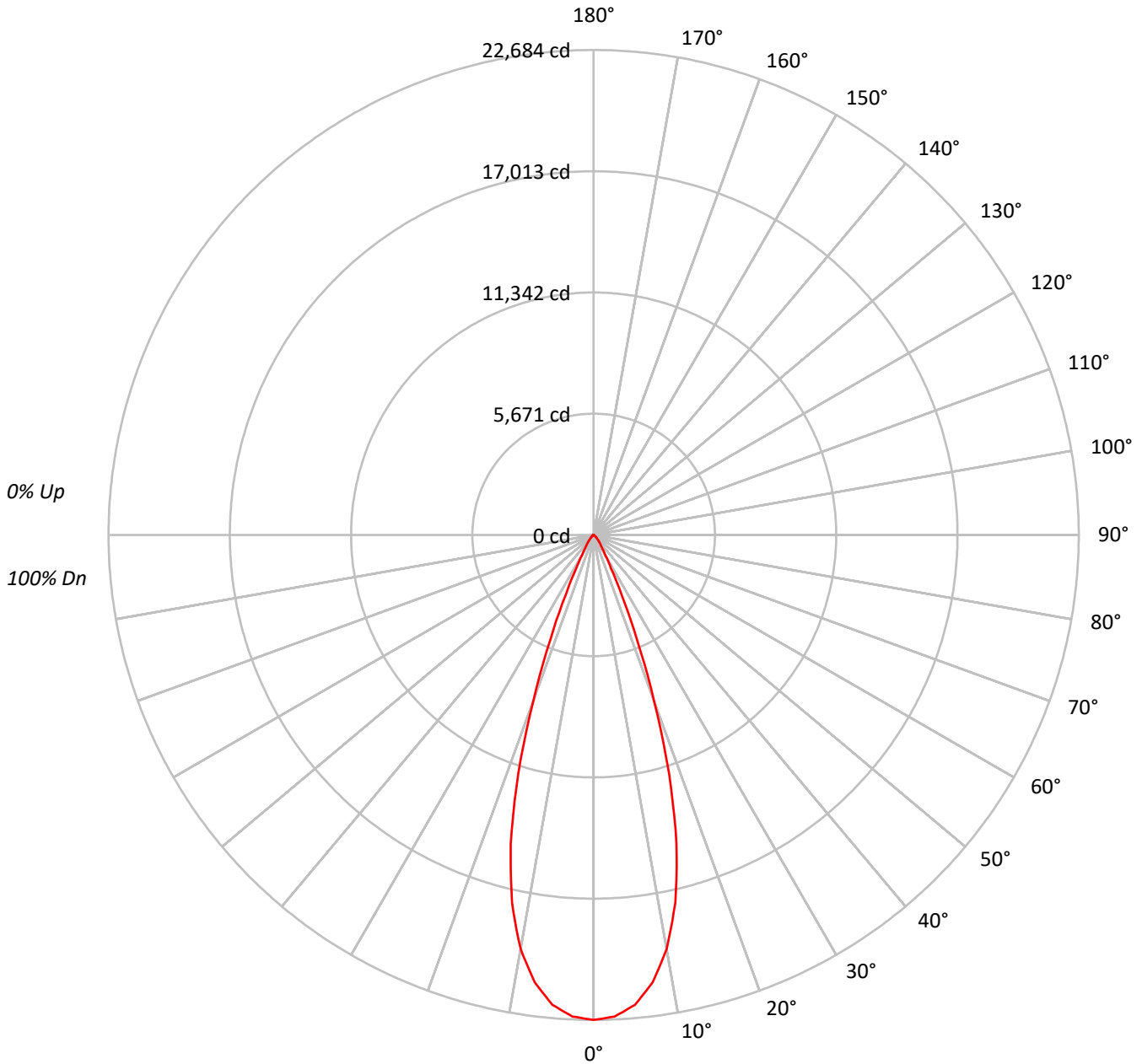
Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P754692  
CATALOG NUMBER: LD4D85BD010-EU4DR3570959050-4LBDP1H

### Luminous Intensity Polar Plot





TEST NUMBER: P754692  
 CATALOG NUMBER: LD4D85BD010-EU4DR3570959050-4LBDP1H

**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			100																
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96			96																
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92			92																
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88			88																
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84			84																
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81			81																
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78			78																
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75			75																
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72			72																
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70			70																
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68			68																

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	2478460
5°	2420223
10°	2181259
15°	1693004
20°	960251
25°	373579
30°	139373
35°	76402
40°	49935
45°	30394
50°	19344
55°	13658
60°	10008
65°	5429
70°	383
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 30394 cd/sqm



TEST NUMBER: P754692

CATALOG NUMBER: LD4D85BD010-EU4DR3570959050-4LBDP1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2029.5	24.6
10°-20°	3962.4	48.1
20°-30°	1616.0	19.6
30°-40°	386.7	4.7
40°-50°	161.2	2.0
50°-60°	66.7	0.8
60°-70°	20.9	0.3
70°-80°	0.5	0.0
80°-90°	0.3	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°	7607.9	92.3
0°-40°	7994.6	97.0
0°-60°	8222.5	99.7
0°-90°	8244.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8244.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	22684	
5°	22067	###
15°	14967	3962
25°	3099	1616
35°	573	387
45°	197	161
55°	72	67
65°	21	21
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P754692

CATALOG NUMBER: LD4D85BD010-EU4DR3570959050-4LBDP1H

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	22683.9
2.5°	22547.8
5°	22066.6
7.5°	21106.6
10°	19660.5
12.5°	17624.3
15°	14967.1
17.5°	11717.4
20°	8258.6
22.5°	5266.1
25°	3098.8
27.5°	1751.7
30°	1104.7
32.5°	775.6
35°	572.8
37.5°	442.9
40°	350.1
42.5°	269.7
45°	196.7
47.5°	147.2
50°	113.8
52.5°	90.3
55°	71.7
57.5°	58.1
60°	45.8
62.5°	33.4
65°	21.0
67.5°	7.4
70°	1.2
72.5°	1.2
75°	0.0
77.5°	0.0
80°	0.0
82.5°	1.2
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)