

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: P754433

Luminaire Tested: LD4D80BD010-EU4DR7070959035-4LBDP1LI

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754433  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D80BD010-EU4DR7070959035-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8151.2 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

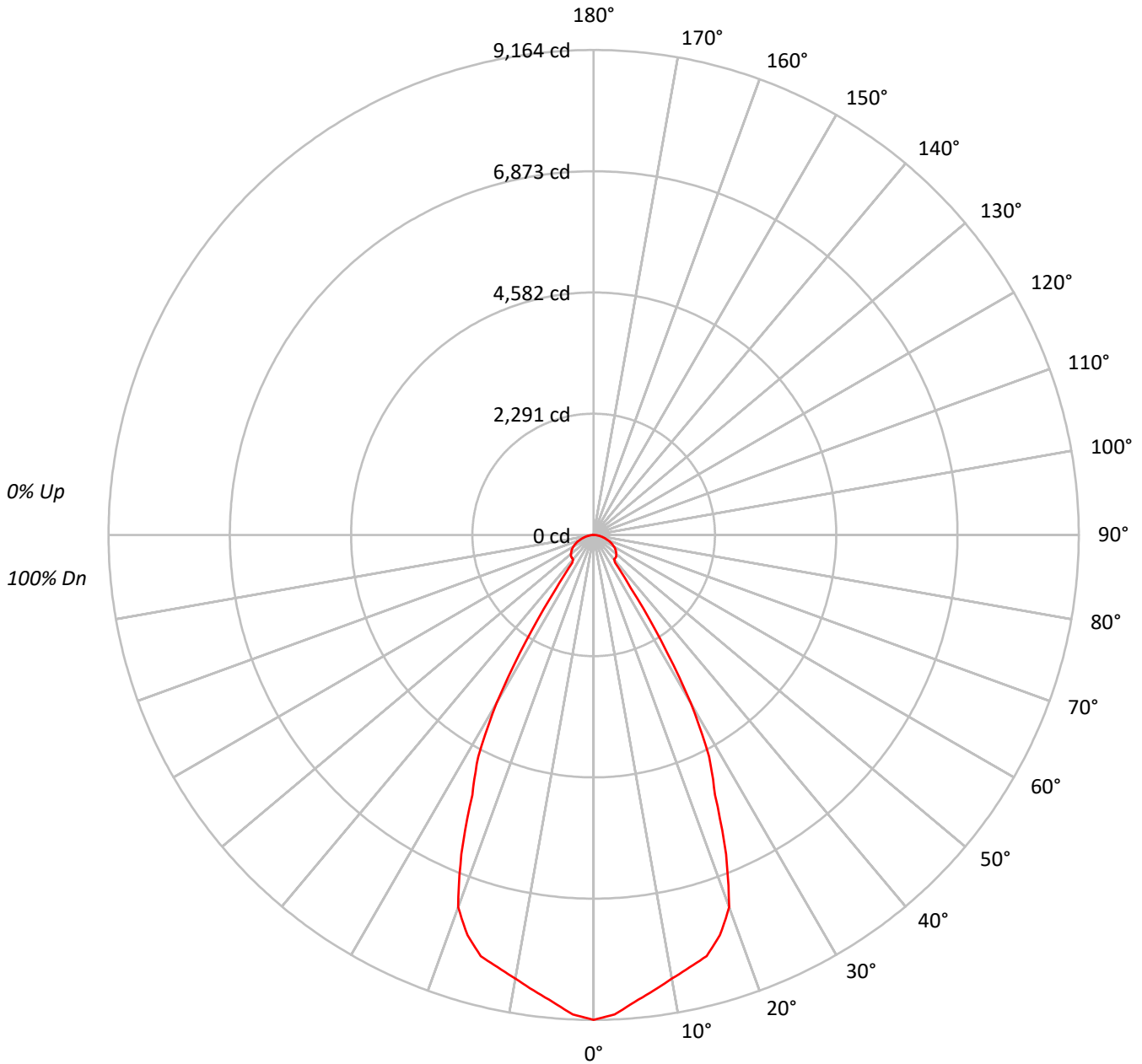
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P754433  
CATALOG NUMBER: LD4D80BD010-EU4DR7070959035-4LBDP1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P754433

CATALOG NUMBER: LD4D80BD010-EU4DR7070959035-4LBDP1LI

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76		
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70		
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65		
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61		
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57		
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50		
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48		

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

	0°
0°	1001298
5°	971540
10°	944463
15°	932068
20°	870361
25°	653859
30°	462225
35°	163727
40°	86091
45°	91691
50°	94951
55°	96731
60°	97329
65°	95269
70°	89927
75°	83290
80°	73932
85°	60049

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 97365 cd/sqm



TEST NUMBER: P754433

CATALOG NUMBER: LD4D80BD010-EU4DR7070959035-4LBDP1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	835.5	10.3
10°-20°	2291.8	28.1
20°-30°	2524.1	31.0
30°-40°	964.4	11.8
40°-50°	455.3	5.6
50°-60°	452.7	5.6
60°-70°	362.4	4.4
70°-80°	208.3	2.6
80°-90°	56.6	0.7
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°	5651.4	69.3
0°-40°	6615.7	81.2
0°-60°	7523.8	92.3
0°-90°	8151.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8151.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9164	
5°	8858	836
15°	8240	2292
25°	5424	2524
35°	1228	964
45°	593	455
55°	508	453
65°	368	362
75°	197	208
85°	48	57
90°	0	



TEST NUMBER: P754433

CATALOG NUMBER: LD4D80BD010-EU4DR7070959035-4LBDP1LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9164.3
2.5°	9068.5
5°	8858.1
7.5°	8682.6
10°	8512.8
12.5°	8369.2
15°	8240.0
17.5°	7928.1
20°	7485.5
22.5°	6530.8
25°	5423.7
27.5°	4721.4
30°	3663.7
32.5°	2366.5
35°	1227.5
37.5°	663.1
40°	603.6
42.5°	599.2
45°	593.4
47.5°	580.4
50°	558.6
52.5°	534.0
55°	507.8
57.5°	478.8
60°	445.4
62.5°	407.7
65°	368.5
67.5°	325.0
70°	281.5
72.5°	238.0
75°	197.3
77.5°	155.3
80°	117.5
82.5°	82.7
85°	47.9
87.5°	18.9
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)