

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: P754406

Luminaire Tested: LD4D80BD010-EU4DR7070959027-4LBDP1H

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754406  
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-EU4DR7070959027-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7456.8 lumens  
Efficiency: N/A  
Efficacy: 94.5 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

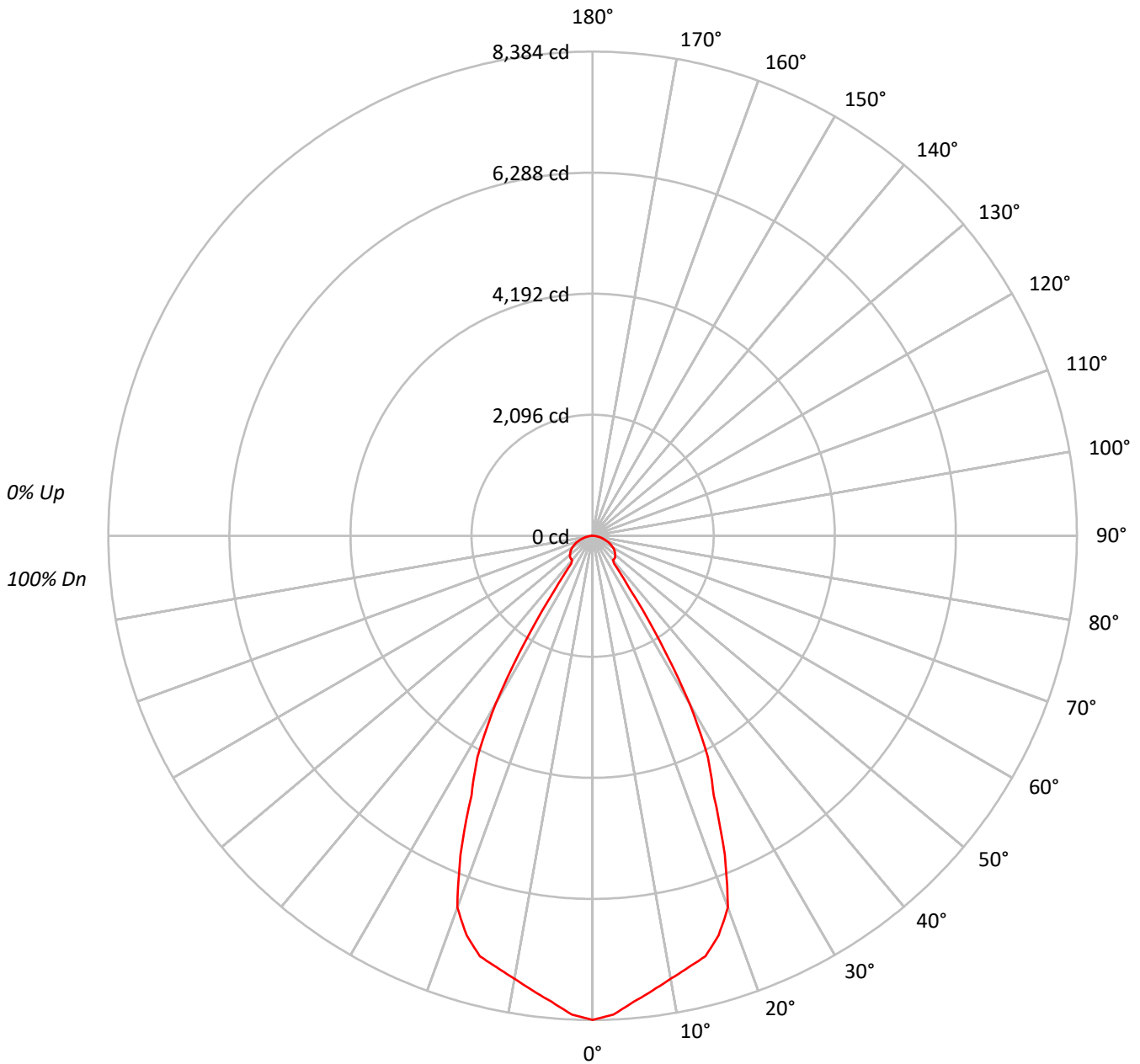
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P754406  
CATALOG NUMBER: LD4D80BD010-EU4DR7070959027-4LBDP1H

### Luminous Intensity Polar Plot





TEST NUMBER: P754406

CATALOG NUMBER: LD4D80BD010-EU4DR7070959027-4LBDP1H

**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°	915998
5°	888777
10°	864005
15°	852661
20°	796213
25°	598162
30°	422849
35°	149775
40°	78760
45°	83888
50°	86860
55°	88502
60°	89048
65°	87151
70°	82260
75°	76198
80°	67640
85°	54909

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 89068 cd/sqm



TEST NUMBER: P754406

CATALOG NUMBER: LD4D80BD010-EU4DR7070959027-4LBDP1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	764.3	10.3
10°-20°	2096.5	28.1
20°-30°	2309.0	31.0
30°-40°	882.2	11.8
40°-50°	416.6	5.6
50°-60°	414.1	5.6
60°-70°	331.6	4.4
70°-80°	190.6	2.6
80°-90°	51.8	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°	5169.9	69.3
0°-40°	6052.1	81.2
0°-60°	6882.8	92.3
0°-90°	7456.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7456.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8384	
5°	8104	764
15°	7538	2097
25°	4962	2309
35°	1123	882
45°	543	417
55°	465	414
65°	337	332
75°	180	191
85°	44	52
90°	0	



TEST NUMBER: P754406

CATALOG NUMBER: LD4D80BD010-EU4DR7070959027-4LBDP1H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8383.6
2.5°	8296.0
5°	8103.5
7.5°	7942.9
10°	7787.6
12.5°	7656.2
15°	7538.0
17.5°	7252.7
20°	6847.8
22.5°	5974.4
25°	4961.7
27.5°	4319.2
30°	3351.6
32.5°	2164.9
35°	1122.9
37.5°	606.6
40°	552.2
42.5°	548.2
45°	542.9
47.5°	530.9
50°	511.0
52.5°	488.5
55°	464.6
57.5°	438.0
60°	407.5
62.5°	373.0
65°	337.1
67.5°	297.3
70°	257.5
72.5°	217.7
75°	180.5
77.5°	142.0
80°	107.5
82.5°	75.7
85°	43.8
87.5°	17.3
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)