

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: P754445

Luminaire Tested: LD4D80BD010-EU4DR7070959040-4LBDP1H

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754445  
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-EU4DR7070959040-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8126.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 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

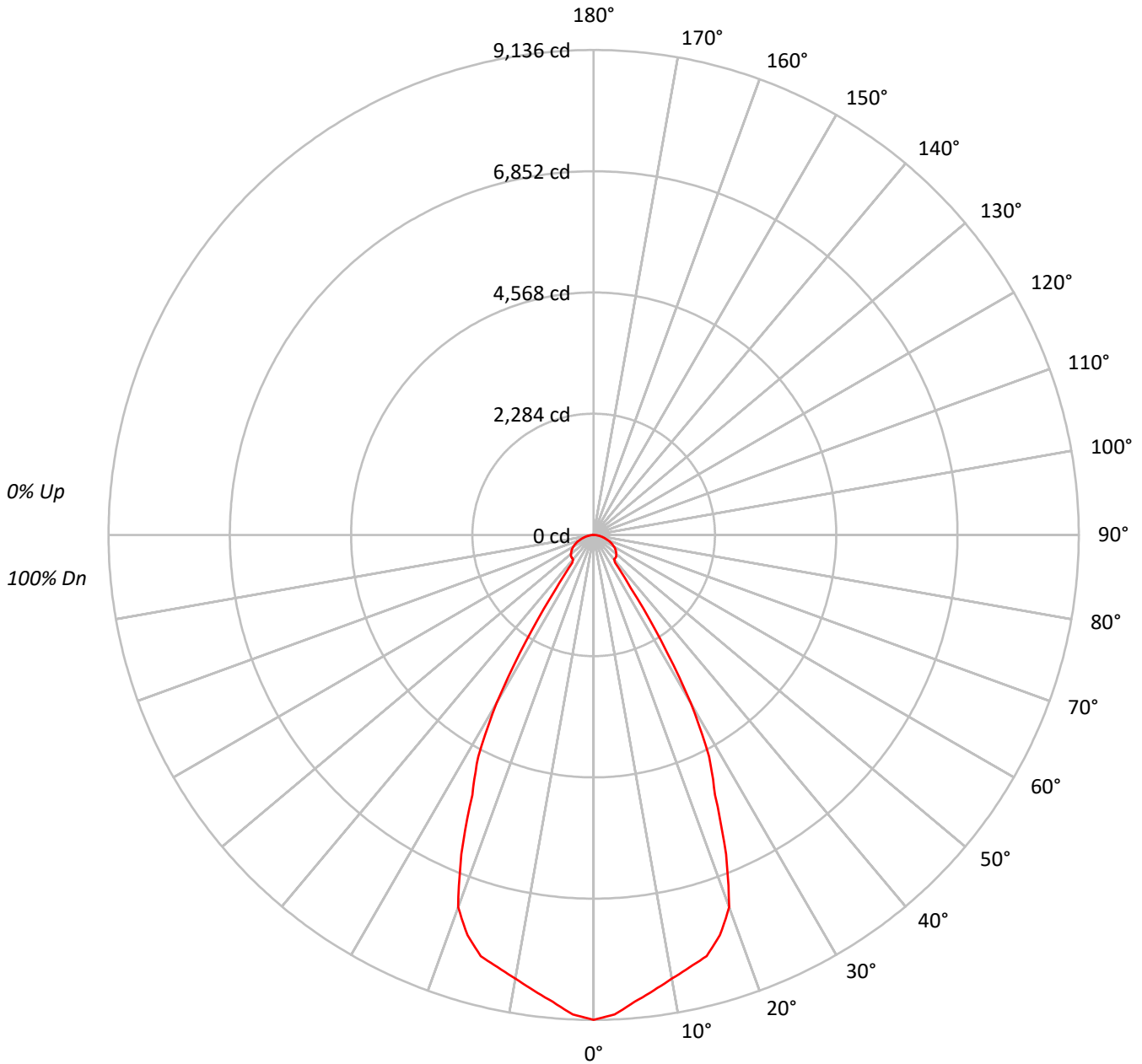
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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### Luminous Intensity Polar Plot





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**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	0	
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°	998195
5°	968535
10°	941546
15°	929184
20°	867675
25°	651834
30°	460799
35°	163220
40°	85820
45°	91413
50°	94662
55°	96445
60°	97045
65°	94985
70°	89640
75°	83037
80°	73743
85°	59798

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 97060 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	832.9	10.3
10°-20°	2284.7	28.1
20°-30°	2516.3	31.0
30°-40°	961.4	11.8
40°-50°	453.9	5.6
50°-60°	451.3	5.6
60°-70°	361.3	4.4
70°-80°	207.7	2.6
80°-90°	56.4	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°	5633.9	69.3
0°-40°	6595.3	81.2
0°-60°	7500.5	92.3
0°-90°	8126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8126.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9136	
5°	8831	833
15°	8214	2285
25°	5407	2516
35°	1224	961
45°	592	454
55°	506	451
65°	367	361
75°	197	208
85°	48	56
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9135.9
2.5°	9040.5
5°	8830.7
7.5°	8655.7
10°	8486.5
12.5°	8343.3
15°	8214.5
17.5°	7903.5
20°	7462.4
22.5°	6510.6
25°	5406.9
27.5°	4706.8
30°	3652.4
32.5°	2359.2
35°	1223.7
37.5°	661.0
40°	601.7
42.5°	597.4
45°	591.6
47.5°	578.6
50°	556.9
52.5°	532.3
55°	506.3
57.5°	477.3
60°	444.1
62.5°	406.5
65°	367.4
67.5°	324.0
70°	280.6
72.5°	237.2
75°	196.7
77.5°	154.8
80°	117.2
82.5°	82.4
85°	47.7
87.5°	18.8
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

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— 0°-180°

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(END OF REPORT)