

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: P754055

Luminaire Tested: LD4D80BD010-EU4DR4570959040-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D80BD010-EU4DR4570959040-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 45° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8245.1 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

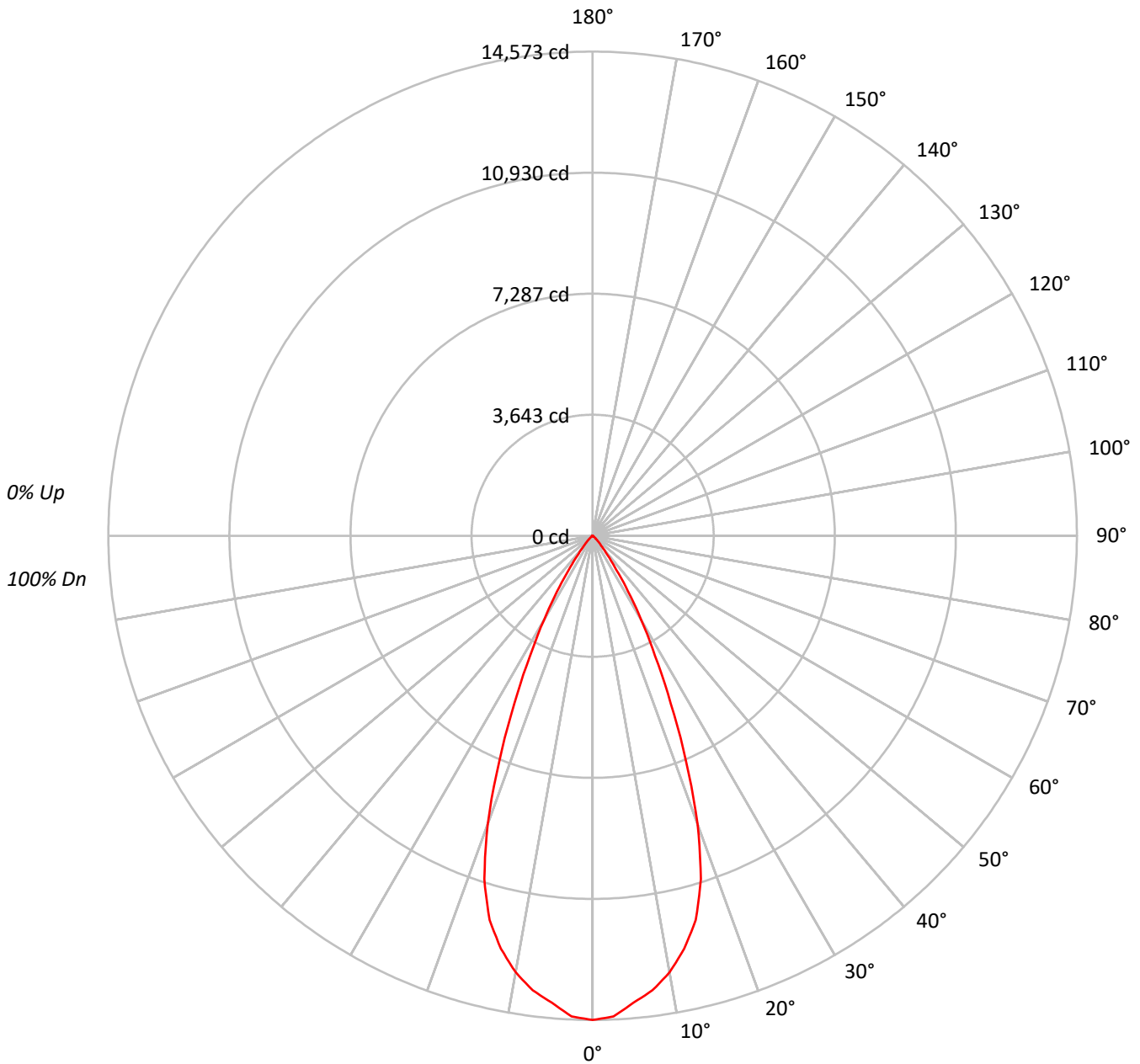
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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									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	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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95																											
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90																											
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85																											
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81																											
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77																											
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73																											
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69																											
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66																											
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63																											
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60																											

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

	0°
0°	1592301
5°	1546966
10°	1480023
15°	1354530
20°	1074617
25°	670894
30°	369785
35°	166035
40°	65396
45°	30811
50°	14618
55°	7639
60°	3759
65°	879
70°	351
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 30811 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1325.3	16.1
10°-20°	3261.6	39.6
20°-30°	2582.9	31.3
30°-40°	860.1	10.4
40°-50°	170.7	2.1
50°-60°	38.8	0.5
60°-70°	5.6	0.1
70°-80°	0.1	0.0
80°-90°	0.0	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°	7169.8	87.0
0°-40°	8029.9	97.4
0°-60°	8239.4	99.9
0°-90°	8245.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8245.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14573	
5°	14105	###
15°	11975	3262
25°	5565	2583
35°	1245	860
45°	199	171
55°	40	39
65°	3	6
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	14573.4
2.5°	14478.2
5°	14104.6
7.5°	13796.2
10°	13340.0
12.5°	12732.5
15°	11974.8
17.5°	10835.5
20°	9242.2
22.5°	7344.0
25°	5565.0
27.5°	4074.9
30°	2931.0
32.5°	1993.3
35°	1244.8
37.5°	738.2
40°	458.5
42.5°	301.5
45°	199.4
47.5°	128.4
50°	86.0
52.5°	57.3
55°	40.1
57.5°	26.4
60°	17.2
62.5°	9.2
65°	3.4
67.5°	1.1
70°	1.1
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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

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— 0°-180°

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(END OF REPORT)