

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: P754290

Luminaire Tested: LD4D80BD010-EU4DR6070959040-4LBDP1LI

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D80BD010-EU4DR6070959040-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8476.7 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

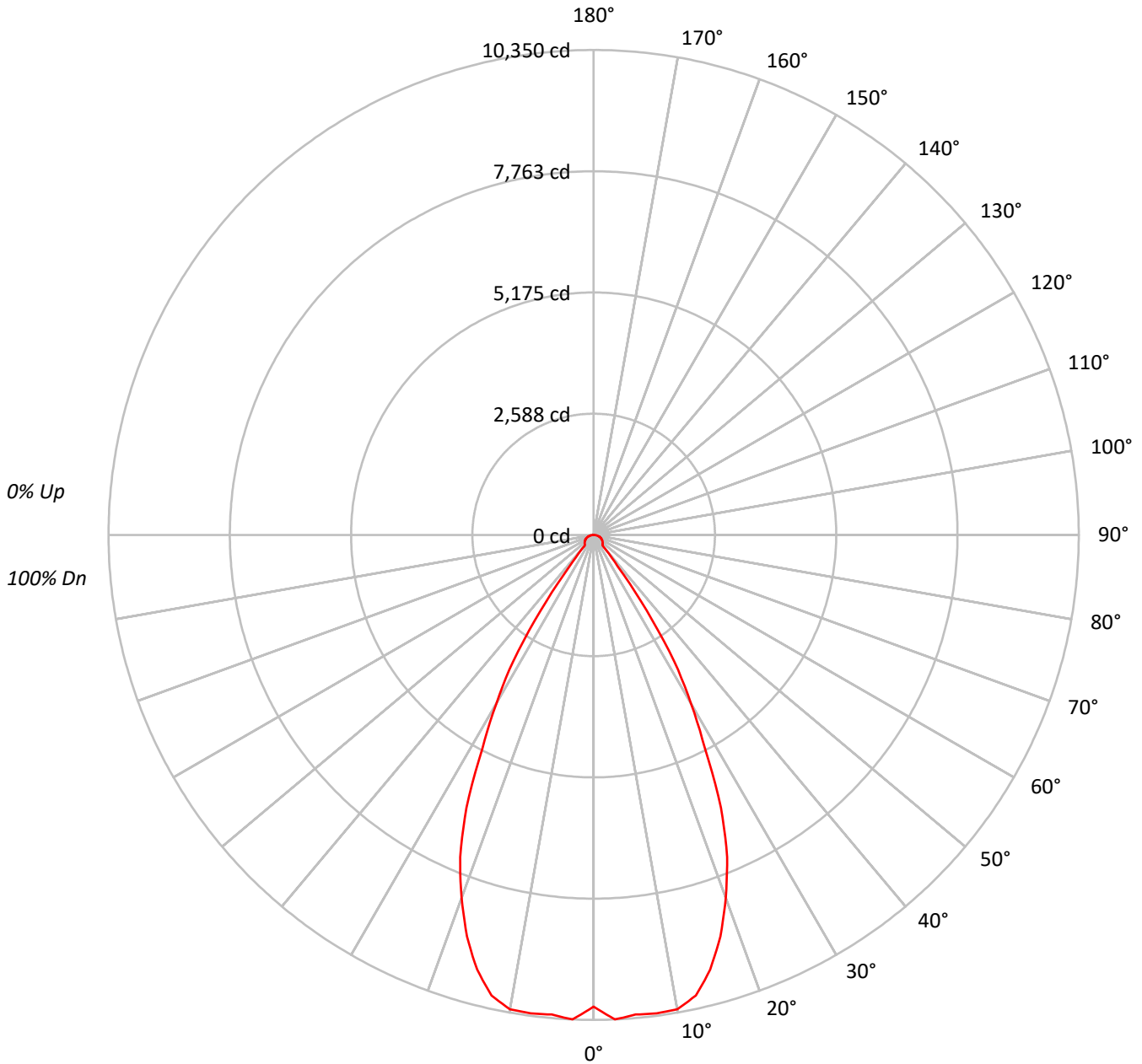
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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																			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

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

	0°
0°	1099939
5°	1126997
10°	1140605
15°	1086583
20°	958030
25°	774885
30°	524146
35°	262644
40°	42604
45°	41704
50°	42529
55°	43184
60°	44382
65°	45398
70°	46449
75°	47028
80°	45366
85°	37734

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 75°  
 Luminance: 47028 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	982.1	11.6
10°-20°	2657.1	31.3
20°-30°	2858.8	33.7
30°-40°	1242.6	14.7
40°-50°	208.7	2.5
50°-60°	202.9	2.4
60°-70°	173.6	2.0
70°-80°	116.2	1.4
80°-90°	34.7	0.4
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°	6497.9	76.7
0°-40°	7740.6	91.3
0°-60°	8152.2	96.2
0°-90°	8476.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8476.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10067	
5°	10276	982
15°	9606	2657
25°	6428	2859
35°	1969	1243
45°	270	209
55°	227	203
65°	176	174
75°	111	116
85°	30	35
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	10067.1
2.5°	10350.1
5°	10275.5
7.5°	10299.0
10°	10280.7
12.5°	10068.5
15°	9606.0
17.5°	8985.0
20°	8239.5
22.5°	7441.6
25°	6427.6
27.5°	5141.0
30°	4154.5
32.5°	3202.0
35°	1969.1
37.5°	842.4
40°	298.7
42.5°	275.1
45°	269.9
47.5°	260.7
50°	250.2
52.5°	238.4
55°	226.7
57.5°	214.9
60°	203.1
62.5°	190.0
65°	175.6
67.5°	161.1
70°	145.4
72.5°	128.4
75°	111.4
77.5°	91.7
80°	72.1
82.5°	51.1
85°	30.1
87.5°	10.5
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)