

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: P754411

Luminaire Tested: LD4D80BD010-EU4DR7070959027-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754411  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D80BD010-EU4DR7070959027-4LBS1LI  
Description: 4 INCH ROUND SHALLOW 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: 8241.7 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

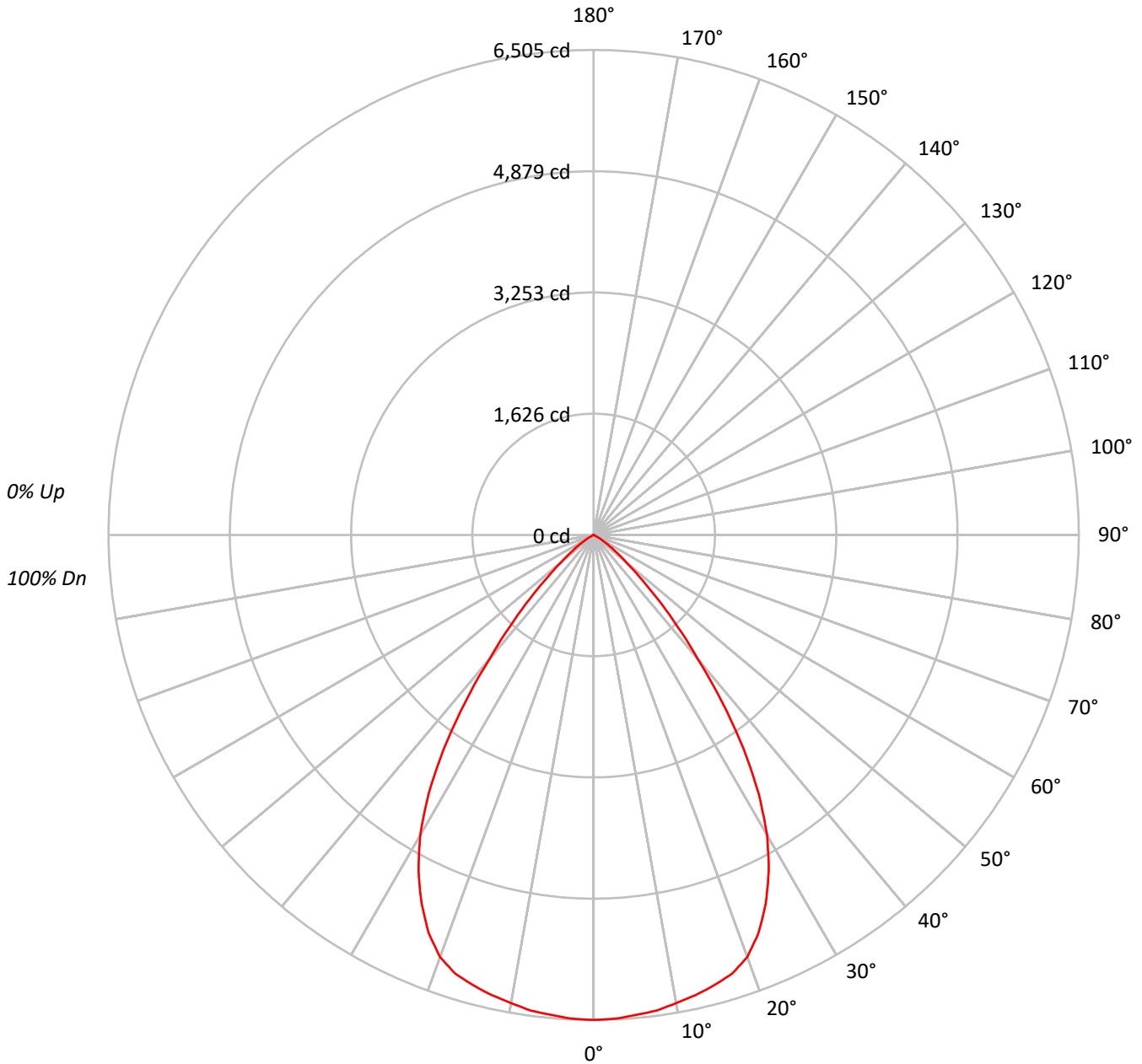
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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			100																
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93			93																
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85																
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78																
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71			71																
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65			65																
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60			60																
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56			56																
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51			51																
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48			48																
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44			44																

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

	0°
0°	710752
5°	708970
10°	707438
15°	707241
20°	700323
25°	657874
30°	586483
35°	467613
40°	310491
45°	185623
50°	96242
55°	50575
60°	17897
65°	310
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 185623 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	614.7	7.5
10°-20°	1763.1	21.4
20°-30°	2487.2	30.2
30°-40°	2147.1	26.1
40°-50°	961.5	11.7
50°-60°	251.7	3.1
60°-70°	16.4	0.2
70°-80°	0.0	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°	4865.0	59.0
0°-40°	7012.1	85.1
0°-60°	8225.3	99.8
0°-90°	8241.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8241.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6505	
5°	6464	615
15°	6252	1763
25°	5457	2487
35°	3506	2147
45°	1201	961
55°	266	252
65°	1	16
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6505.1
2.5°	6498.0
5°	6464.1
7.5°	6436.0
10°	6376.4
12.5°	6322.6
15°	6252.4
17.5°	6171.7
20°	6023.1
22.5°	5778.6
25°	5457.0
27.5°	5083.8
30°	4648.6
32.5°	4116.4
35°	3505.8
37.5°	2832.0
40°	2176.9
42.5°	1654.0
45°	1201.3
47.5°	828.2
50°	566.2
52.5°	390.7
55°	265.5
57.5°	160.3
60°	81.9
62.5°	25.7
65°	1.2
67.5°	0.0
70°	0.0
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)