

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: P755412

Luminaire Tested: LD4D90BD010-EU4DR3570959024-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755412  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D90BD010-EU4DR3570959024-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 35° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7775.2 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

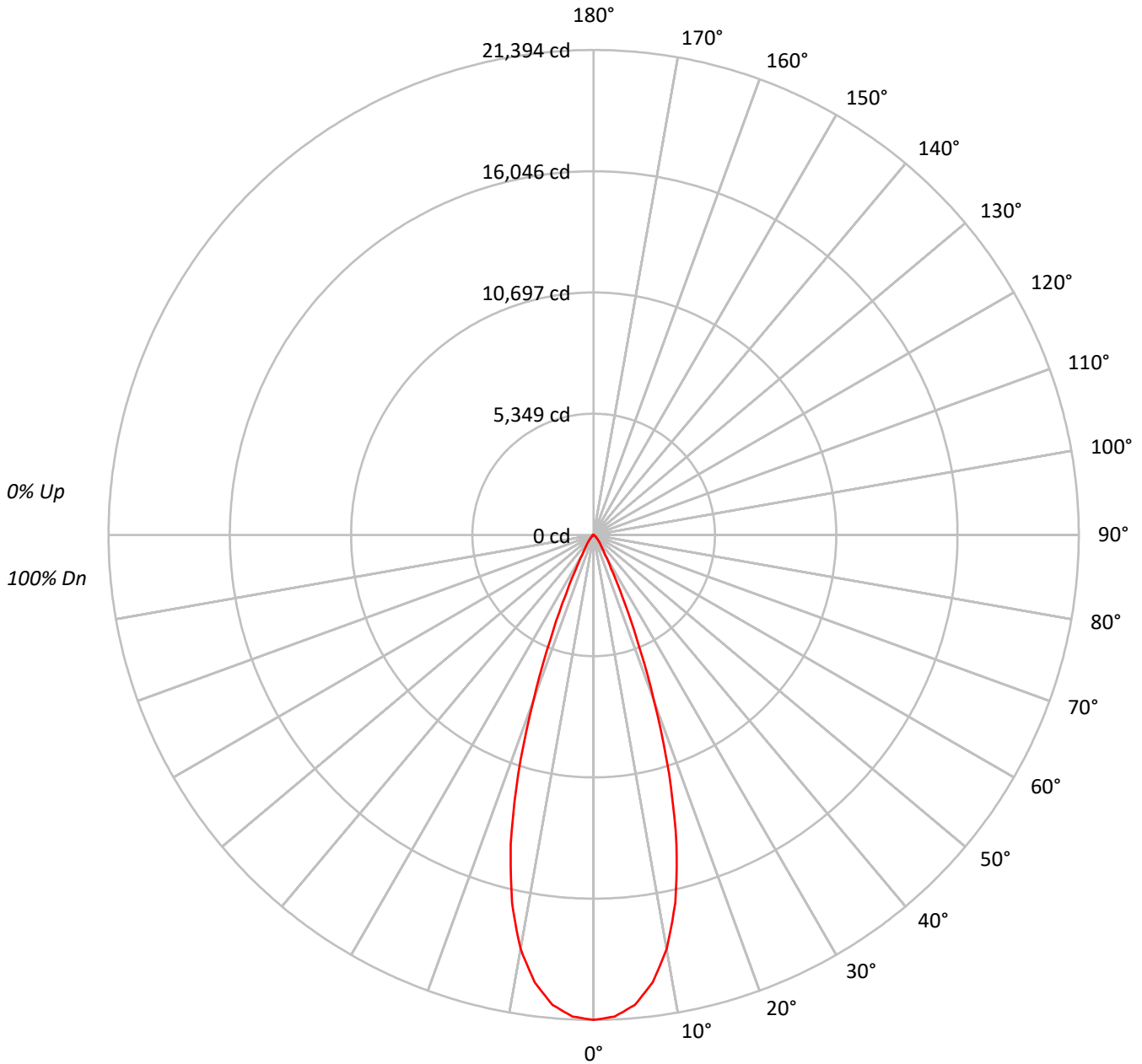
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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			100
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96			96
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92			92
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88			88
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84			84
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81			81
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78			78
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75			75
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72			72
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70			70
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68			68

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

	0°
0°	2337470
5°	2282544
10°	2057177
15°	1596698
20°	905626
25°	352325
30°	131437
35°	72053
40°	47096
45°	28663
50°	18239
55°	12896
60°	9440
65°	5119
70°	383
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 28663 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1914.0	24.6
10°-20°	3737.0	48.1
20°-30°	1524.1	19.6
30°-40°	364.7	4.7
40°-50°	152.0	2.0
50°-60°	62.9	0.8
60°-70°	19.7	0.3
70°-80°	0.5	0.0
80°-90°	0.3	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°	7175.1	92.3
0°-40°	7539.8	97.0
0°-60°	7754.7	99.7
0°-90°	7775.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7775.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	21394	
5°	20811	###
15°	14116	3737
25°	2922	1524
35°	540	365
45°	186	152
55°	68	63
65°	20	20
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	21393.5
2.5°	21265.1
5°	20811.3
7.5°	19905.9
10°	18542.1
12.5°	16621.7
15°	14115.7
17.5°	11050.8
20°	7788.8
22.5°	4966.6
25°	2922.5
27.5°	1652.0
30°	1041.8
32.5°	731.5
35°	540.2
37.5°	417.7
40°	330.2
42.5°	254.3
45°	185.5
47.5°	138.8
50°	107.3
52.5°	85.2
55°	67.7
57.5°	54.8
60°	43.2
62.5°	31.5
65°	19.8
67.5°	7.0
70°	1.2
72.5°	1.2
75°	0.0
77.5°	0.0
80°	0.0
82.5°	1.2
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)