

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: P755891

Luminaire Tested: LD4D90BD010-EU4DR6570959027-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P755891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR6570959027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7144.7 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

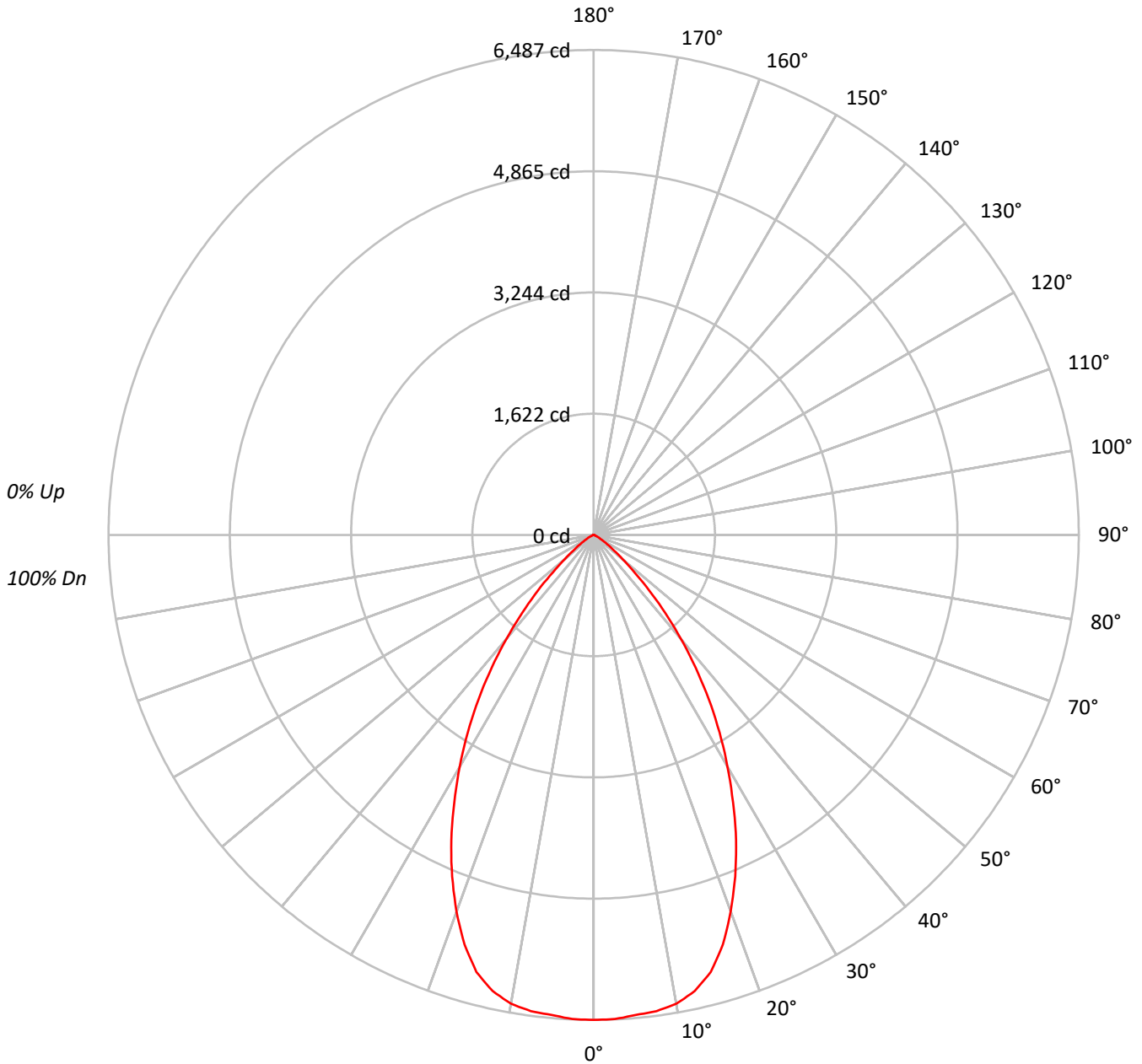
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	378878
5°	377921
10°	377600
15°	365959
20°	333160
25°	290328
30°	241472
35°	191328
40°	138095
45°	87246
50°	45476
55°	24173
60°	12697
65°	6979
70°	2937
75°	3227
80°	2253
85°	1943

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 87246 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.5	8.6
10°-20°	1680.0	23.5
20°-30°	2053.5	28.7
30°-40°	1666.1	23.3
40°-50°	830.3	11.6
50°-60°	231.6	3.2
60°-70°	52.6	0.7
70°-80°	13.7	0.2
80°-90°	3.5	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°	4346.9	60.8
0°-40°	6013.0	84.2
0°-60°	7074.9	99.0
0°-90°	7144.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7144.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6487	
5°	6446	613
15°	6052	1680
25°	4505	2053
35°	2684	1666
45°	1056	830
55°	237	232
65°	50	53
75°	14	14
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6487.2
2.5°	6482.4
5°	6446.2
7.5°	6425.2
10°	6367.1
12.5°	6248.9
15°	6052.5
17.5°	5745.5
20°	5360.4
22.5°	4944.8
25°	4505.3
27.5°	4035.3
30°	3580.6
32.5°	3131.6
35°	2683.5
37.5°	2236.4
40°	1811.3
42.5°	1412.8
45°	1056.3
47.5°	735.9
50°	500.5
52.5°	345.1
55°	237.4
57.5°	160.2
60°	108.7
62.5°	75.3
65°	50.5
67.5°	25.7
70°	17.2
72.5°	16.2
75°	14.3
77.5°	9.5
80°	6.7
82.5°	4.8
85°	2.9
87.5°	1.9
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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