

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: P755875

Luminaire Tested: LD4D90BD010-EU4DR6570959024-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR6570959024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6453.5 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

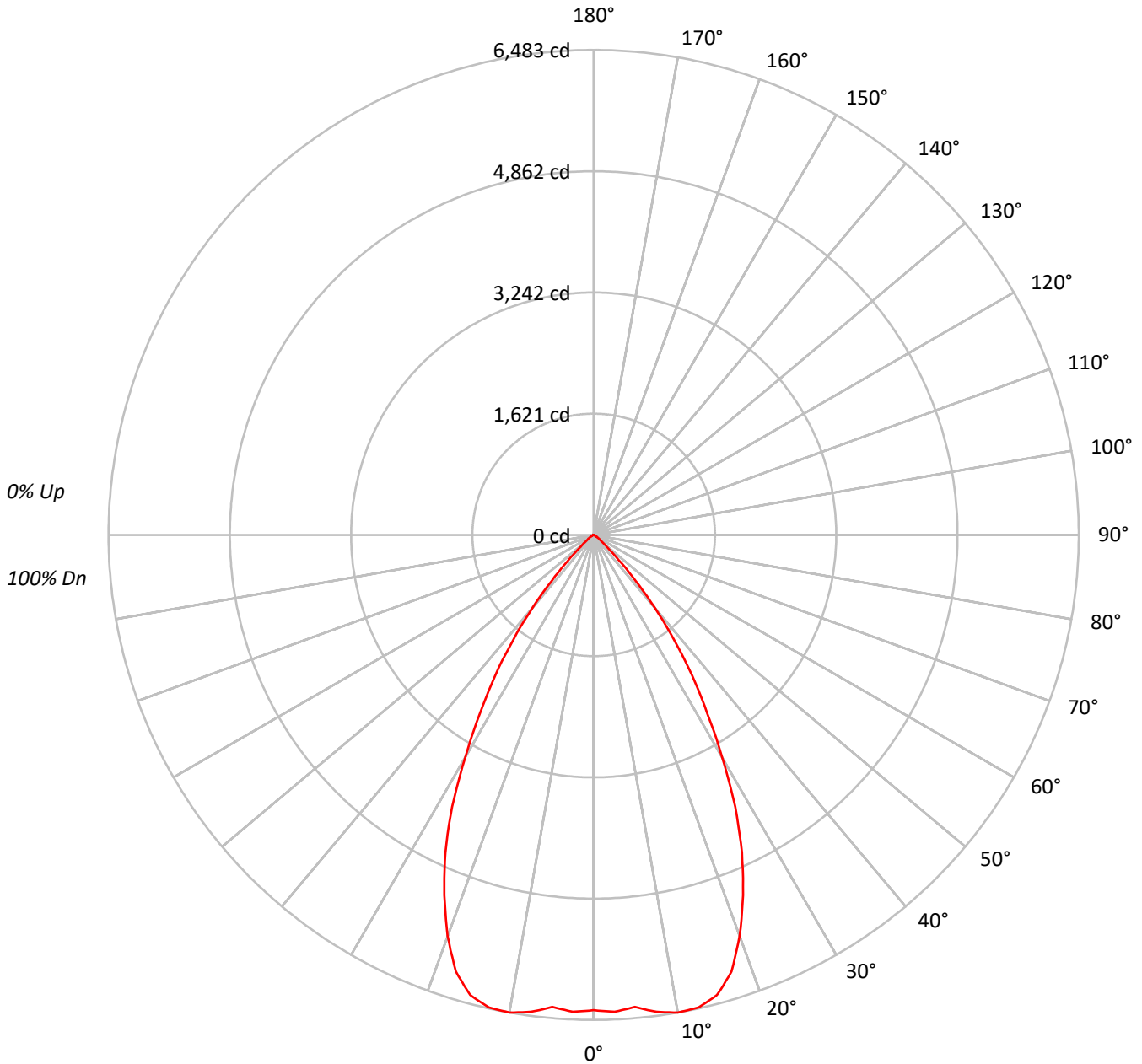
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	694243
5°	694811
10°	719276
15°	720464
20°	663313
25°	565178
30°	432665
35°	305673
40°	180427
45°	73242
50°	26551
55°	14801
60°	8479
65°	4679
70°	4888
75°	3799
80°	3964
85°	3385

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 73242 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.8	9.5
10°-20°	1764.9	27.3
20°-30°	2117.5	32.8
30°-40°	1423.0	22.1
40°-50°	426.0	6.6
50°-60°	75.2	1.2
60°-70°	21.4	0.3
70°-80°	10.4	0.2
80°-90°	3.3	0.1
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°	4494.2	69.6
0°-40°	5917.2	91.7
0°-60°	6418.4	99.5
0°-90°	6453.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6453.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6354	
5°	6335	612
15°	6369	1765
25°	4688	2118
35°	2292	1423
45°	474	426
55°	78	75
65°	18	21
75°	9	10
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6354.0
2.5°	6381.1
5°	6335.0
7.5°	6430.7
10°	6483.1
12.5°	6470.4
15°	6369.3
17.5°	6121.9
20°	5704.8
22.5°	5213.6
25°	4688.1
27.5°	4094.8
30°	3429.4
32.5°	2826.2
35°	2291.7
37.5°	1763.4
40°	1265.0
42.5°	826.2
45°	474.0
47.5°	251.0
50°	156.2
52.5°	108.4
55°	77.7
57.5°	56.0
60°	38.8
62.5°	25.3
65°	18.1
67.5°	16.3
70°	15.3
72.5°	11.7
75°	9.0
77.5°	8.1
80°	6.3
82.5°	4.5
85°	2.7
87.5°	1.8
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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