

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: P755852

Luminaire Tested: LD4D90BD010-EU4DR6070959040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR6070959040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8993.2 lumens
Efficiency: N/A
Efficacy: 90.9 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

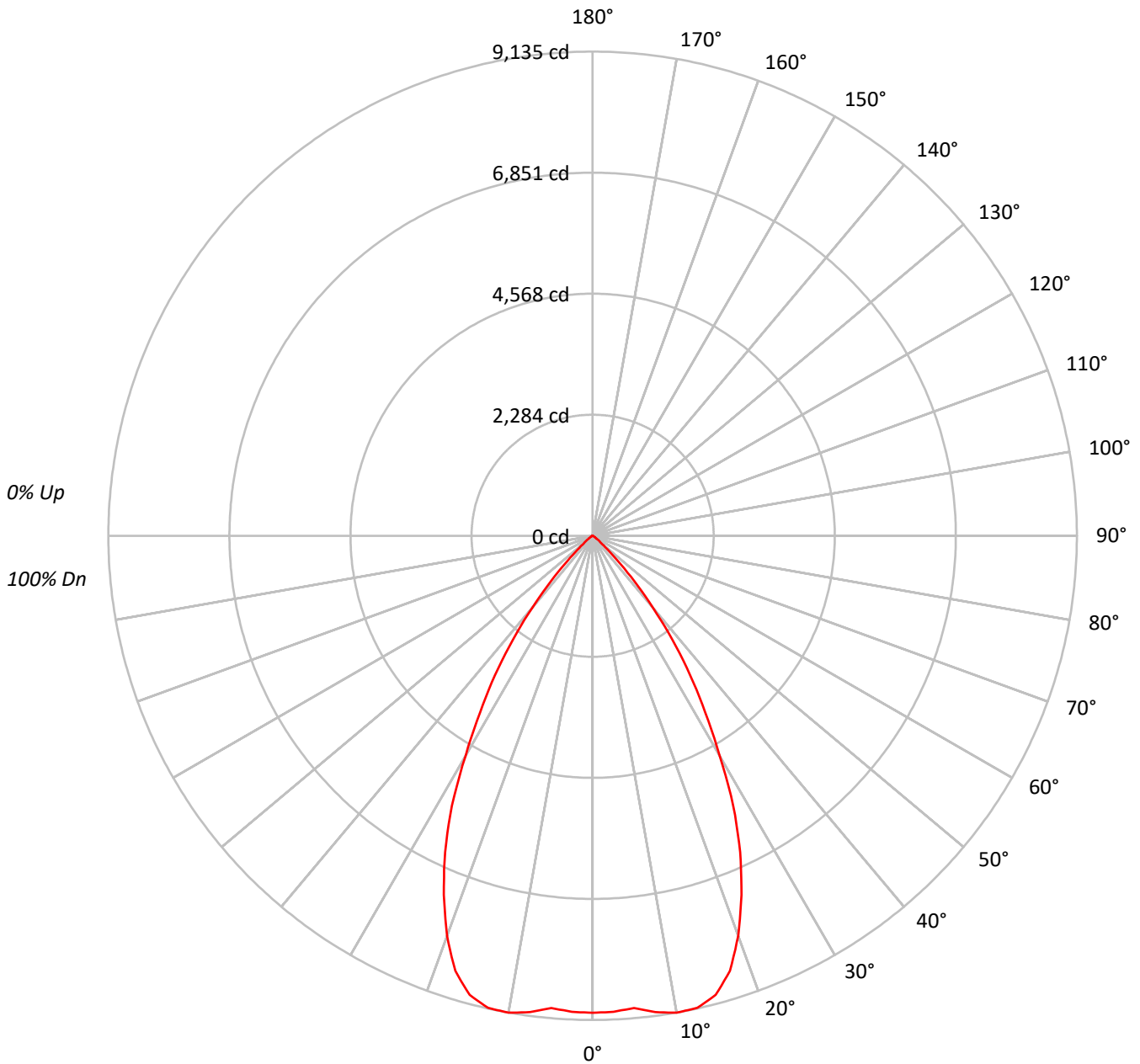
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87																			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81																			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65																			
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61																			
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58	57																			
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53																			
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	983325
5°	980917
10°	1013505
15°	1014552
20°	933497
25°	793993
30°	605004
35°	427839
40°	251228
45°	101379
50°	33843
55°	16287
60°	6687
65°	982
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 101379 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	862.8	9.6
10°-20°	2484.8	27.6
20°-30°	2973.9	33.1
30°-40°	1989.1	22.1
40°-50°	589.7	6.6
50°-60°	84.8	0.9
60°-70°	8.1	0.1
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°	6321.5	70.3
0°-40°	8310.6	92.4
0°-60°	8985.1	99.9
0°-90°	8993.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8993.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9000	
5°	8944	863
15°	8969	2485
25°	6586	2974
35°	3208	1989
45°	656	590
55°	86	85
65°	4	8
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8999.8
2.5°	8988.3
5°	8943.6
7.5°	9064.9
10°	9135.1
12.5°	9122.3
15°	8969.2
17.5°	8607.9
20°	8028.5
22.5°	7332.8
25°	6586.1
27.5°	5745.0
30°	4795.4
32.5°	3947.9
35°	3207.6
37.5°	2466.0
40°	1761.4
42.5°	1161.5
45°	656.1
47.5°	335.7
50°	199.1
52.5°	128.9
55°	85.5
57.5°	54.9
60°	30.6
62.5°	12.8
65°	3.8
67.5°	1.3
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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