

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: P755980

Luminaire Tested: LD4D90BD010-EU4DR7070959030-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR7070959030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9109.7 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

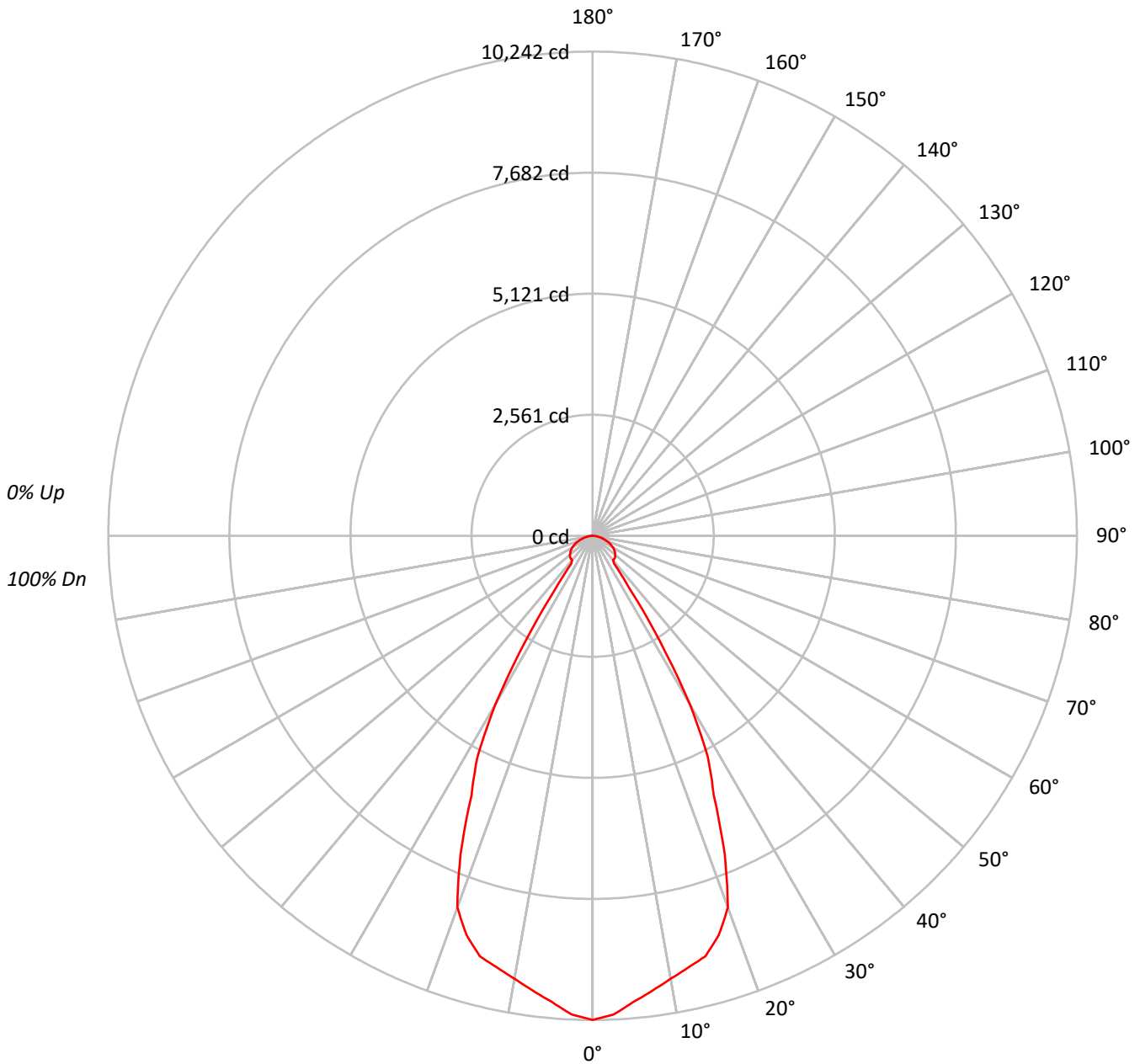
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1119038
5°	1085791
10°	1055521
15°	1041677
20°	972716
25°	730750
30°	516576
35°	182988
40°	96218
45°	102476
50°	106118
55°	108122
60°	108780
65°	106490
70°	100501
75°	93084
80°	82615
85°	67069

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 108813 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	933.8	10.3
10°-20°	2561.3	28.1
20°-30°	2820.9	31.0
30°-40°	1077.8	11.8
40°-50°	508.9	5.6
50°-60°	505.9	5.6
60°-70°	405.1	4.4
70°-80°	232.8	2.6
80°-90°	63.3	0.7
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°	6315.9	69.3
0°-40°	7393.7	81.2
0°-60°	8408.5	92.3
0°-90°	9109.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9109.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10242	
5°	9900	934
15°	9209	2561
25°	6062	2821
35°	1372	1078
45°	663	509
55°	568	506
65°	412	405
75°	220	233
85°	54	63
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10241.9
2.5°	10134.9
5°	9899.8
7.5°	9703.6
10°	9513.8
12.5°	9353.3
15°	9209.0
17.5°	8860.4
20°	8365.8
22.5°	7298.8
25°	6061.5
27.5°	5276.6
30°	4094.5
32.5°	2644.8
35°	1371.9
37.5°	741.1
40°	674.6
42.5°	669.7
45°	663.2
47.5°	648.6
50°	624.3
52.5°	596.7
55°	567.6
57.5°	535.1
60°	497.8
62.5°	455.7
65°	411.9
67.5°	363.2
70°	314.6
72.5°	265.9
75°	220.5
77.5°	173.5
80°	131.3
82.5°	92.4
85°	53.5
87.5°	21.1
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)