

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: P756004

Luminaire Tested: LD4D90BD010-EU4DR7070959040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P756004
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-EU4DR7070959040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5339.5 lumens
Efficiency: N/A
Efficacy: 54.0 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

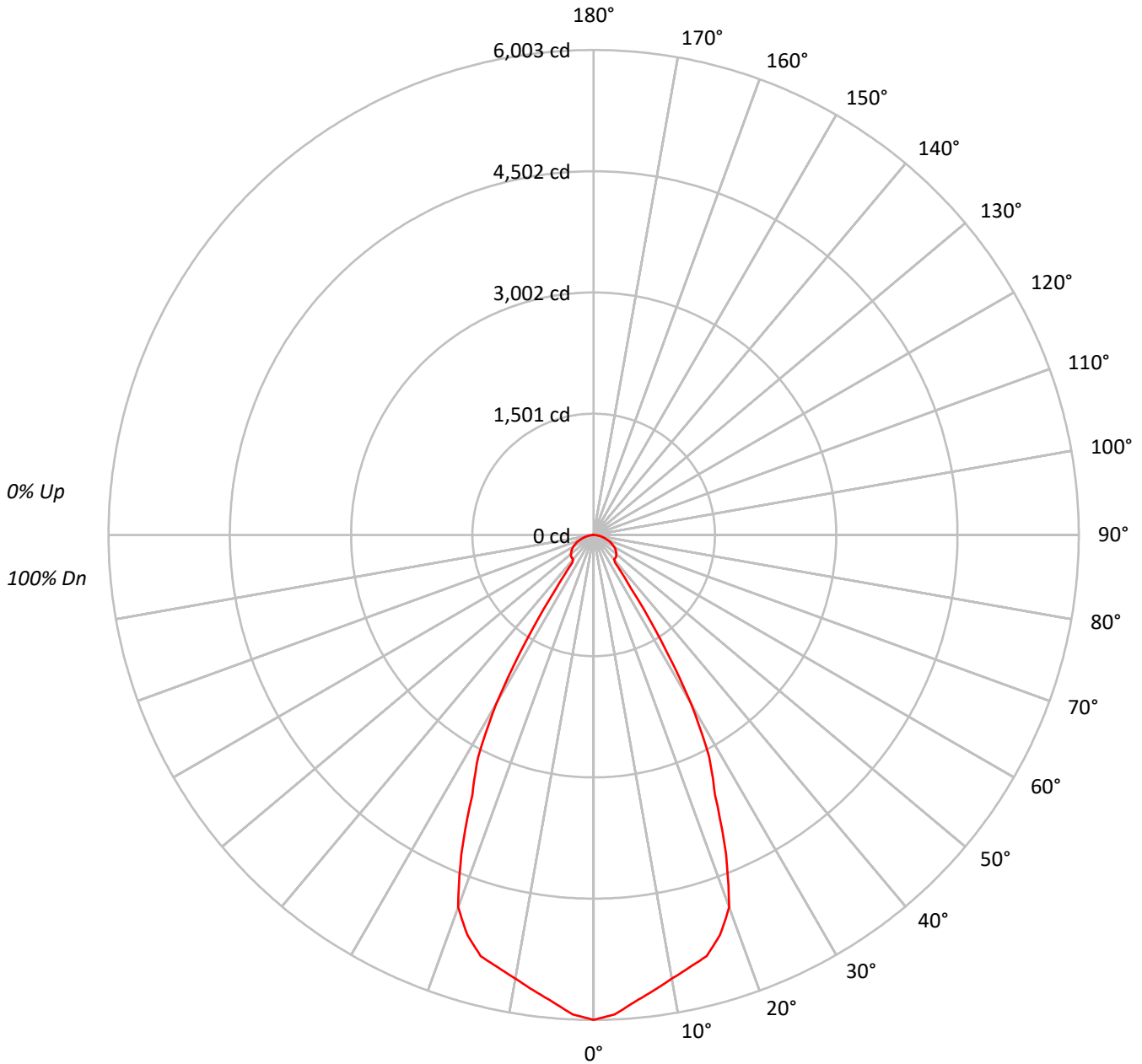
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	655903
5°	636418
10°	618681
15°	610561
20°	570132
25°	428311
30°	302780
35°	107253
40°	56396
45°	60061
50°	62196
55°	63376
60°	63765
65°	62410
70°	58908
75°	54584
80°	48449
85°	39364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 63791 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.3	10.3
10°-20°	1501.2	28.1
20°-30°	1653.4	31.0
30°-40°	631.7	11.8
40°-50°	298.3	5.6
50°-60°	296.6	5.6
60°-70°	237.4	4.4
70°-80°	136.5	2.6
80°-90°	37.1	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°	3701.9	69.3
0°-40°	4333.7	81.2
0°-60°	4928.5	92.3
0°-90°	5339.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5339.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6003	
5°	5803	547
15°	5398	1501
25°	3553	1653
35°	804	632
45°	389	298
55°	333	297
65°	241	237
75°	129	136
85°	31	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6003.1
2.5°	5940.4
5°	5802.6
7.5°	5687.6
10°	5576.4
12.5°	5482.3
15°	5397.7
17.5°	5193.3
20°	4903.4
22.5°	4278.0
25°	3552.8
27.5°	3092.8
30°	2399.9
32.5°	1550.2
35°	804.1
37.5°	434.4
40°	395.4
42.5°	392.5
45°	388.7
47.5°	380.2
50°	365.9
52.5°	349.8
55°	332.7
57.5°	313.7
60°	291.8
62.5°	267.1
65°	241.4
67.5°	212.9
70°	184.4
72.5°	155.9
75°	129.3
77.5°	101.7
80°	77.0
82.5°	54.2
85°	31.4
87.5°	12.4
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)