

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: P755991

Luminaire Tested: LD4D90BD010-EU4DR7070959035-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755991
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-EU4DR7070959035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5101.0 lumens
Efficiency: N/A
Efficacy: 51.6 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

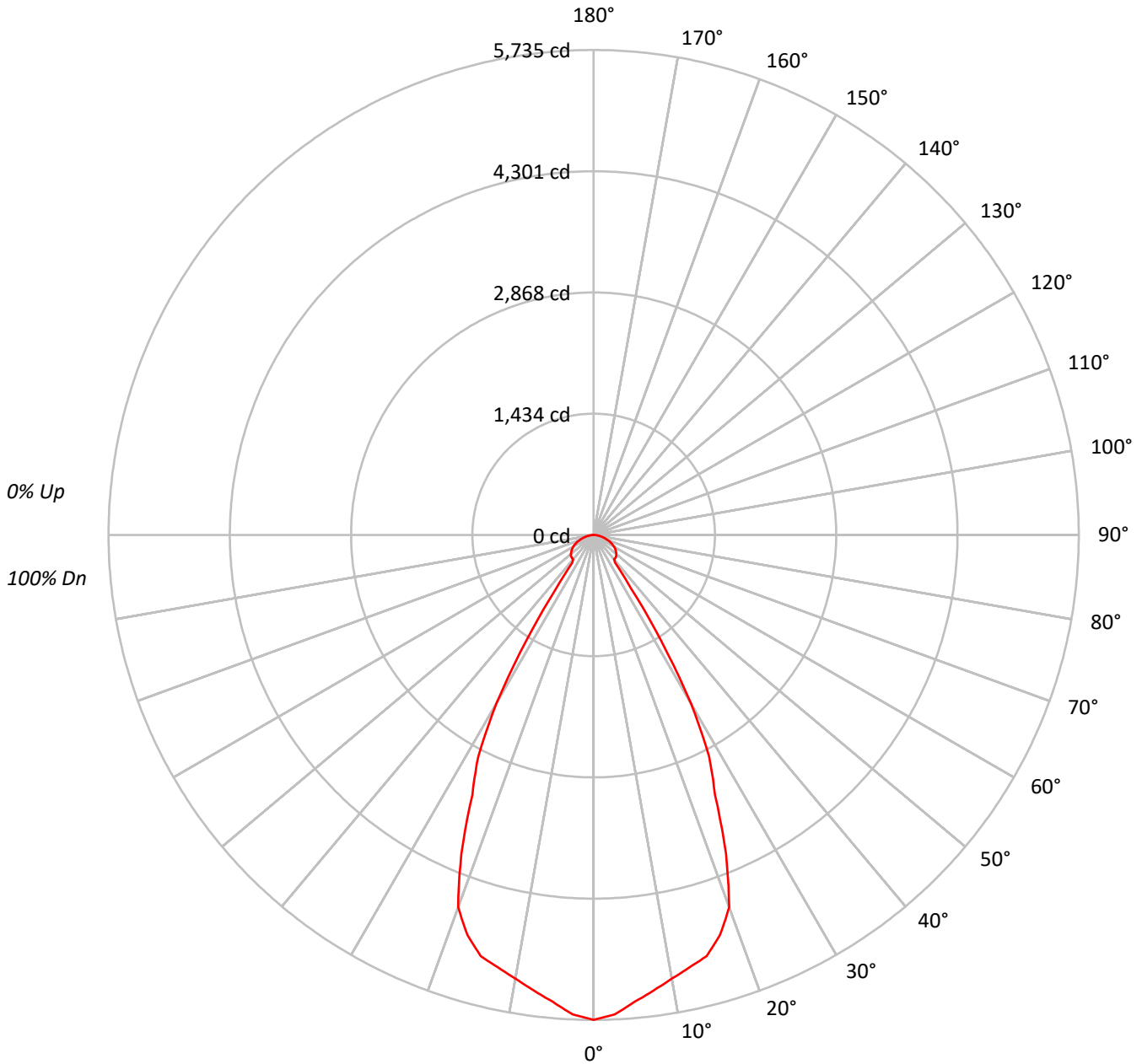
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	626610
5°	607990
10°	591044
15°	583289
20°	544669
25°	409179
30°	289255
35°	102465
40°	53871
45°	57388
50°	59425
55°	60538
60°	60924
65°	59618
70°	56288
75°	52136
80°	46247
85°	37609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 60924 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.9	10.3
10°-20°	1434.2	28.1
20°-30°	1579.6	31.0
30°-40°	603.5	11.8
40°-50°	285.0	5.6
50°-60°	283.3	5.6
60°-70°	226.8	4.4
70°-80°	130.4	2.6
80°-90°	35.5	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°	3536.6	69.3
0°-40°	4140.1	81.2
0°-60°	4708.4	92.3
0°-90°	5101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5101.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5735	
5°	5543	523
15°	5157	1434
25°	3394	1580
35°	768	604
45°	371	285
55°	318	283
65°	231	227
75°	124	130
85°	30	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5735.0
2.5°	5675.1
5°	5543.4
7.5°	5433.5
10°	5327.3
12.5°	5237.4
15°	5156.6
17.5°	4961.4
20°	4684.4
22.5°	4087.0
25°	3394.1
27.5°	2954.7
30°	2292.7
32.5°	1481.0
35°	768.2
37.5°	415.0
40°	377.7
42.5°	375.0
45°	371.4
47.5°	363.2
50°	349.6
52.5°	334.1
55°	317.8
57.5°	299.6
60°	278.8
62.5°	255.2
65°	230.6
67.5°	203.4
70°	176.2
72.5°	148.9
75°	123.5
77.5°	97.2
80°	73.5
82.5°	51.8
85°	30.0
87.5°	11.8
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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(END OF REPORT)