

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: P755992

Luminaire Tested: LD4D90BD010-EU4DR7070959035-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755992
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-EU4DR7070959035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8767.3 lumens
Efficiency: N/A
Efficacy: 88.6 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

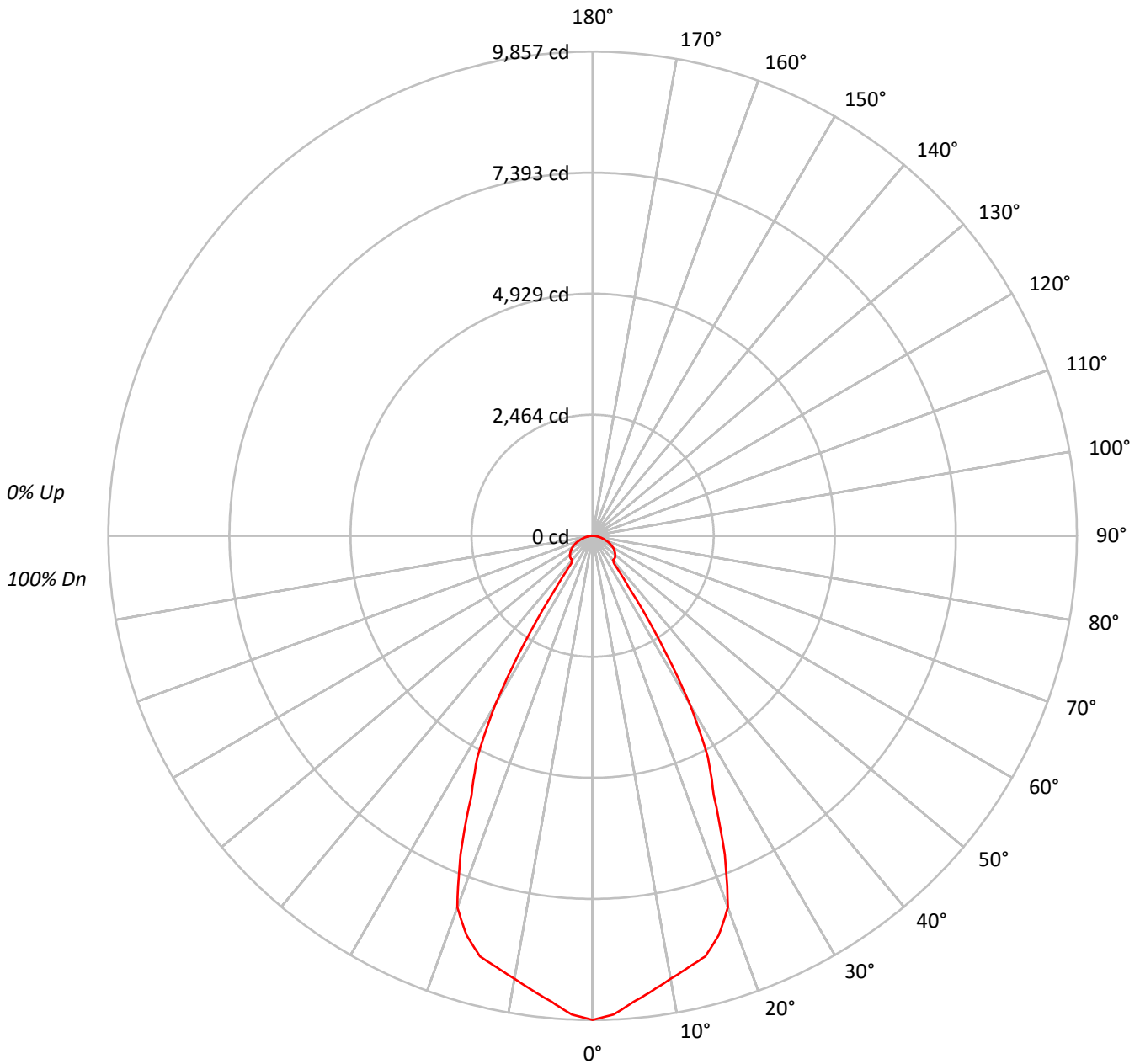
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1076983
5°	1044980
10°	1015846
15°	1002527
20°	936148
25°	703287
30°	497160
35°	176105
40°	92595
45°	98629
50°	102124
55°	104046
60°	104694
65°	102482
70°	96732
75°	89580
80°	79532
85°	64562

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 104726 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	898.7	10.3
10°-20°	2465.0	28.1
20°-30°	2714.9	31.0
30°-40°	1037.3	11.8
40°-50°	489.8	5.6
50°-60°	486.9	5.6
60°-70°	389.8	4.4
70°-80°	224.0	2.6
80°-90°	60.9	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°	6078.5	69.3
0°-40°	7115.8	81.2
0°-60°	8092.5	92.3
0°-90°	8767.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8767.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9857	
5°	9528	899
15°	8863	2465
25°	5834	2715
35°	1320	1037
45°	638	490
55°	546	487
65°	396	390
75°	212	224
85°	52	61
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9857.0
2.5°	9754.0
5°	9527.7
7.5°	9338.8
10°	9156.2
12.5°	9001.7
15°	8862.9
17.5°	8527.3
20°	8051.3
22.5°	7024.4
25°	5833.7
27.5°	5078.3
30°	3940.6
32.5°	2545.4
35°	1320.3
37.5°	713.2
40°	649.2
42.5°	644.5
45°	638.3
47.5°	624.3
50°	600.8
52.5°	574.3
55°	546.2
57.5°	515.0
60°	479.1
62.5°	438.5
65°	396.4
67.5°	349.6
70°	302.8
72.5°	255.9
75°	212.2
77.5°	167.0
80°	126.4
82.5°	89.0
85°	51.5
87.5°	20.3
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)