

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: P755529

Luminaire Tested: LD4D90BD010-EU4DR4070959035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR4070959035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10021.6 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

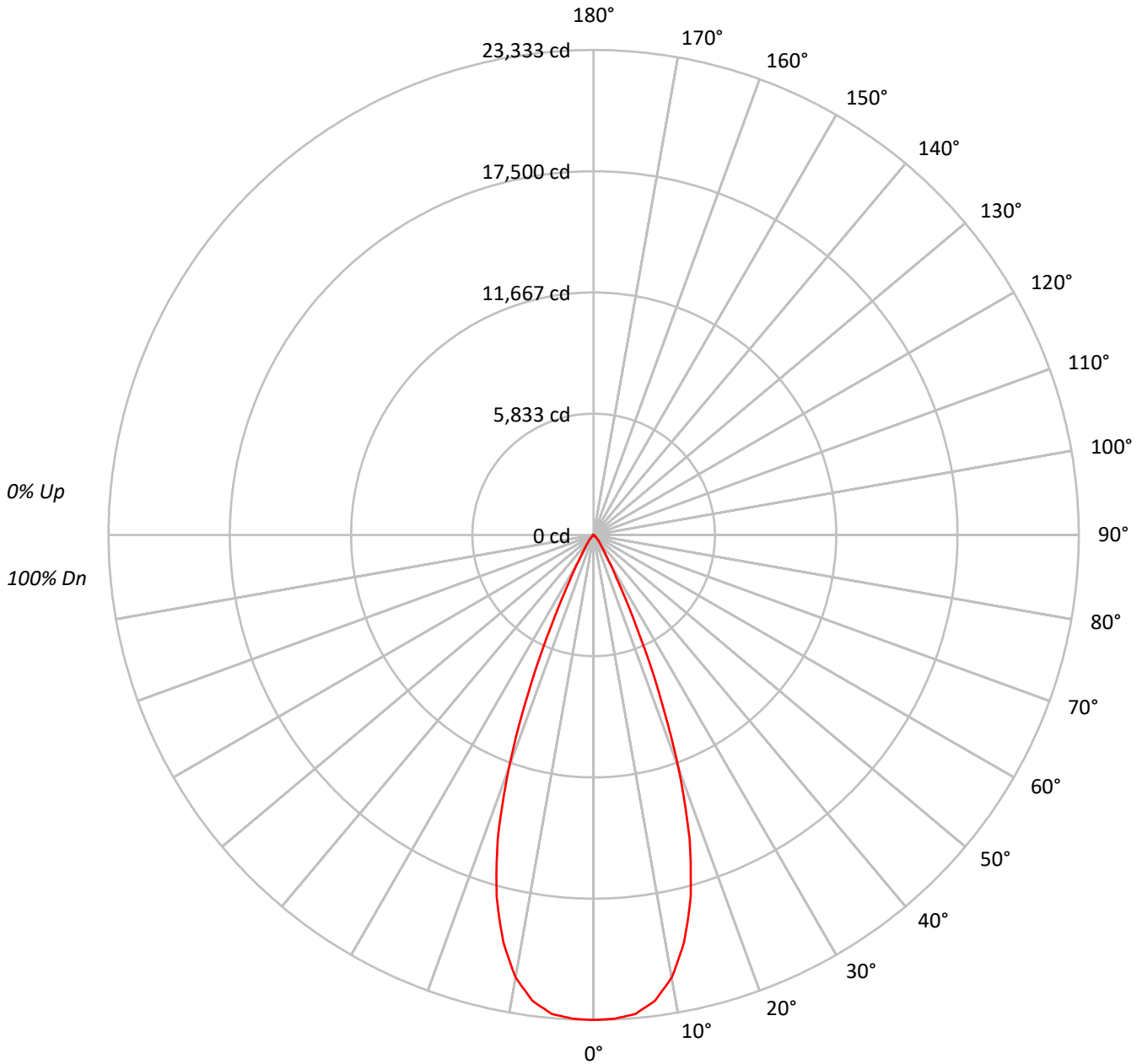
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96			
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92			
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88			
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84			
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81			
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77			
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74			
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72			
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69			
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2549370
5°	2536986
10°	2398004
15°	2038605
20°	1389461
25°	579741
30°	182281
35°	84725
40°	46854
45°	21478
50°	10420
55°	5715
60°	2972
65°	1060
70°	447
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21478 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2159.9	21.6
10°-20°	4838.7	48.3
20°-30°	2422.1	24.2
30°-40°	444.0	4.4
40°-50°	122.5	1.2
50°-60°	28.8	0.3
60°-70°	5.5	0.1
70°-80°	0.2	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°	9420.6	94.0
0°-40°	9864.6	98.4
0°-60°	10015.9	99.9
0°-90°	10021.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10021.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23333	
5°	23131	###
15°	18022	4839
25°	4809	2422
35°	635	444
45°	139	122
55°	30	29
65°	4	6
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	23332.9
2.5°	23298.8
5°	23131.2
7.5°	22596.9
10°	21614.1
12.5°	20082.0
15°	18022.4
17.5°	15344.0
20°	11950.0
22.5°	8147.0
25°	4808.9
27.5°	2542.1
30°	1444.8
32.5°	933.7
35°	635.2
37.5°	453.9
40°	328.5
42.5°	224.9
45°	139.0
47.5°	88.6
50°	61.3
52.5°	43.6
55°	30.0
57.5°	19.1
60°	13.6
62.5°	8.2
65°	4.1
67.5°	2.7
70°	1.4
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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(END OF REPORT)