

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: P755354

Luminaire Tested: LD4D90BD010-EU4DR3070959030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR3070959030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6757.4 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

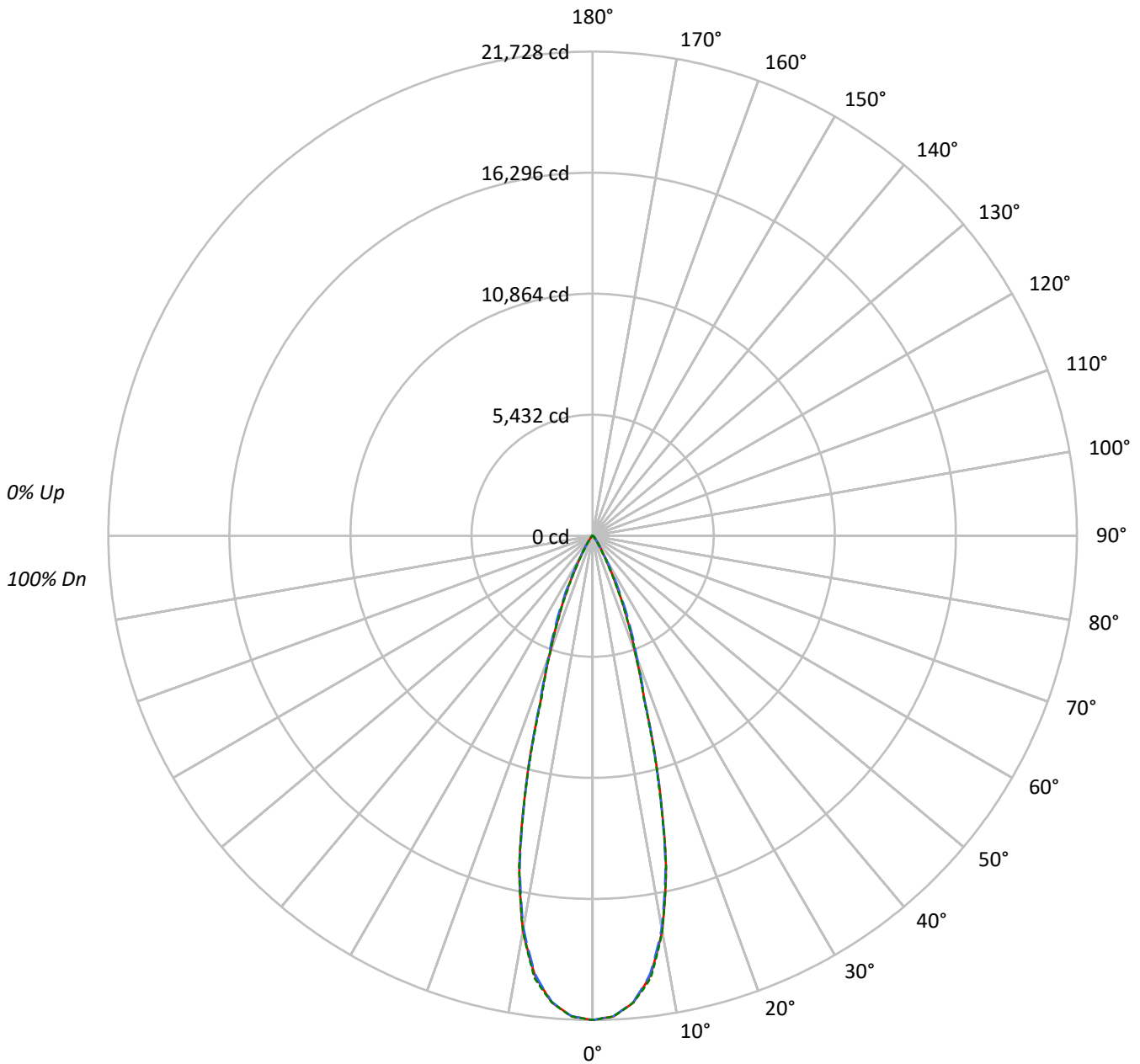
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1663158	1663158	1663158
5°	1615411	1613528	1615495
10°	1399191	1389328	1398865
15°	912902	908004	903432
20°	453945	470977	453334
25°	228665	257854	223978
30°	91549	99760	79767
35°	42469	40666	34088
40°	18335	20364	17266
45°	12936	16053	13044
50°	4442	11682	4704
55°	2562	4844	2709
60°	1791	2128	1791
65°	1159	1159	1159
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16053 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1910.7	28.3
10°-20°	3077.2	45.5
20°-30°	1329.7	19.7
30°-40°	303.1	4.5
40°-50°	104.1	1.5
50°-60°	25.4	0.4
60°-70°	6.6	0.1
70°-80°	0.7	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°	6317.6	93.5
0°-40°	6620.6	98.0
0°-60°	6750.1	99.9
0°-90°	6757.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6757.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21728	21728	21728	21728	21728	
5°	21024	21004	21000	21043	21025	1912
15°	11520	11382	11458	11421	11401	3085
25°	2708	2810	3053	2738	2652	1296
35°	454	464	435	432	365	308
45°	120	148	148	148	120	85
55°	19	20	36	21	20	19
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21728.3	21728.3	21728.3	21728.3	21728.3
2.5°	21584.3	21569.4	21577.9	21588.6	21592.8
5°	21024.2	21004.0	20999.7	21043.4	21025.3
7.5°	19894.5	19865.7	19822.0	19921.2	20014.0
10°	18002.0	17970.0	17875.1	17922.0	17997.8
12.5°	15208.1	15104.6	15102.5	15251.8	15231.6
15°	11520.2	11381.5	11458.4	11421.0	11400.7
17.5°	7747.0	7693.7	7796.1	7765.1	7631.8
20°	5572.9	5586.8	5782.0	5683.8	5565.4
22.5°	4066.6	4116.7	4348.2	4095.4	4002.6
25°	2707.5	2809.9	3053.1	2738.4	2652.0
27.5°	1665.3	1712.2	1958.6	1643.9	1597.0
30°	1035.8	1012.4	1128.7	968.6	902.5
32.5°	679.5	649.7	687.0	616.6	563.3
35°	454.5	464.1	435.2	432.0	364.8
37.5°	283.8	326.4	288.0	307.2	234.7
40°	183.5	236.8	203.8	225.1	172.8
42.5°	150.4	182.4	167.5	178.2	153.6
45°	119.5	148.3	148.3	148.3	120.5
47.5°	66.1	99.2	126.9	101.3	70.4
50°	37.3	50.1	98.1	52.3	39.5
52.5°	25.6	28.8	67.2	29.9	26.7
55°	19.2	20.3	36.3	21.3	20.3
57.5°	14.9	16.0	19.2	16.0	14.9
60°	11.7	11.7	13.9	12.8	11.7
62.5°	8.5	8.5	9.6	8.5	8.5
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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