

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: P754253

Luminaire Tested: LD4D80BD010-EU4DR6070959027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR6070959027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7307.3 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

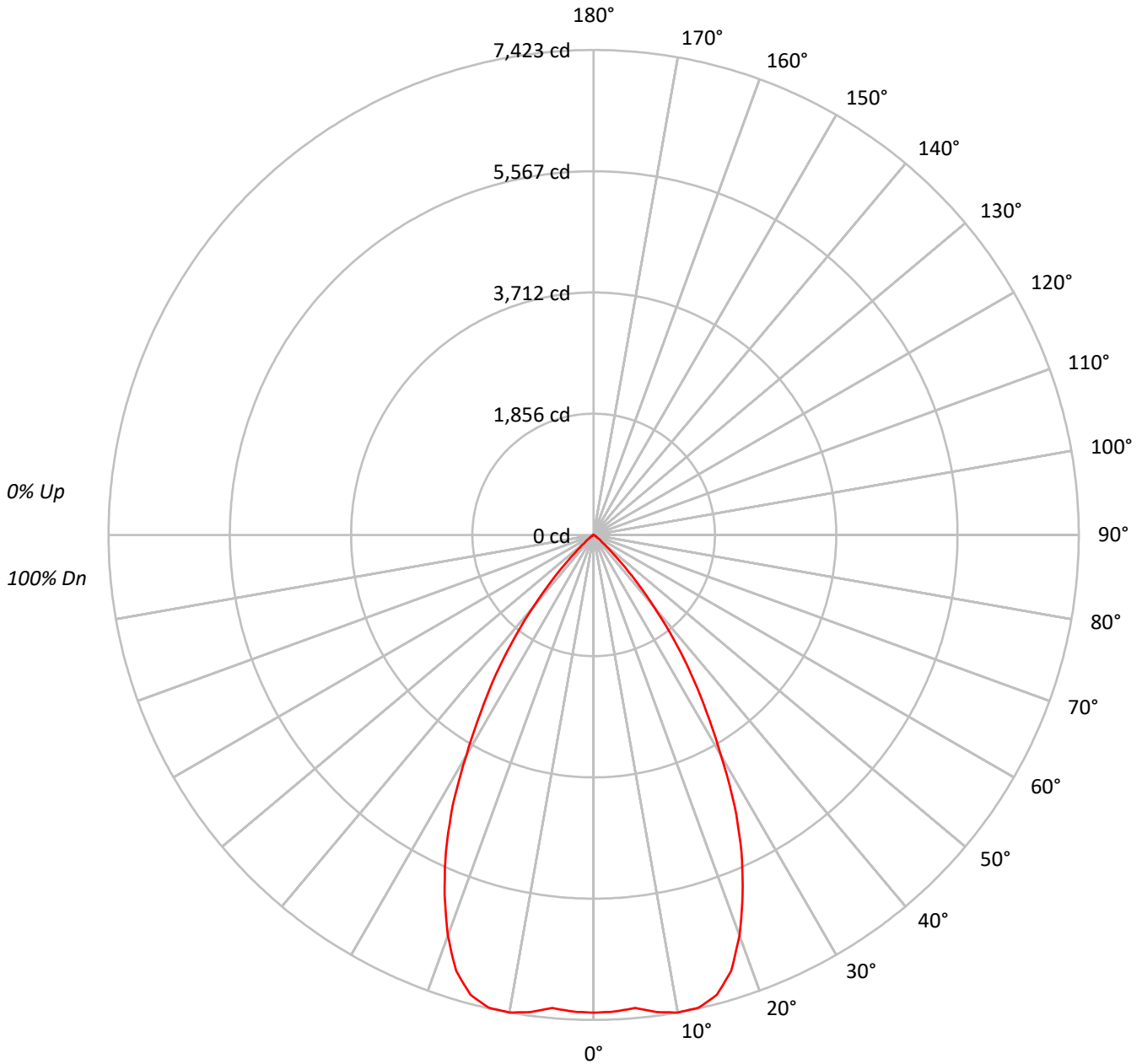
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94				
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87				
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81				
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75				
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70				
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65				
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61				
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58	57				
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53				
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	798980
5°	797031
10°	823510
15°	824349
20°	758494
25°	645155
30°	491583
35°	347622
40°	204132
45°	82374
50°	27503
55°	13239
60°	5441
65°	801
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 82374 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.0	9.6
10°-20°	2019.0	27.6
20°-30°	2416.4	33.1
30°-40°	1616.2	22.1
40°-50°	479.2	6.6
50°-60°	68.9	0.9
60°-70°	6.5	0.1
70°-80°	0.0	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°	5136.4	70.3
0°-40°	6752.6	92.4
0°-60°	7300.7	99.9
0°-90°	7307.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7307.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7313	
5°	7267	701
15°	7288	2019
25°	5352	2416
35°	2606	1616
45°	533	479
55°	70	69
65°	3	7
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7312.6
2.5°	7303.3
5°	7267.0
7.5°	7365.5
10°	7422.6
12.5°	7412.2
15°	7287.7
17.5°	6994.2
20°	6523.4
22.5°	5958.2
25°	5351.5
27.5°	4668.0
30°	3896.4
32.5°	3207.8
35°	2606.2
37.5°	2003.7
40°	1431.2
42.5°	943.8
45°	533.1
47.5°	272.8
50°	161.8
52.5°	104.7
55°	69.5
57.5°	44.6
60°	24.9
62.5°	10.4
65°	3.1
67.5°	1.0
70°	0.0
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)