

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



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: P754383

Luminaire Tested: LD4D80BD010-EU4DR6570959050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P754383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR6570959050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6943.4 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

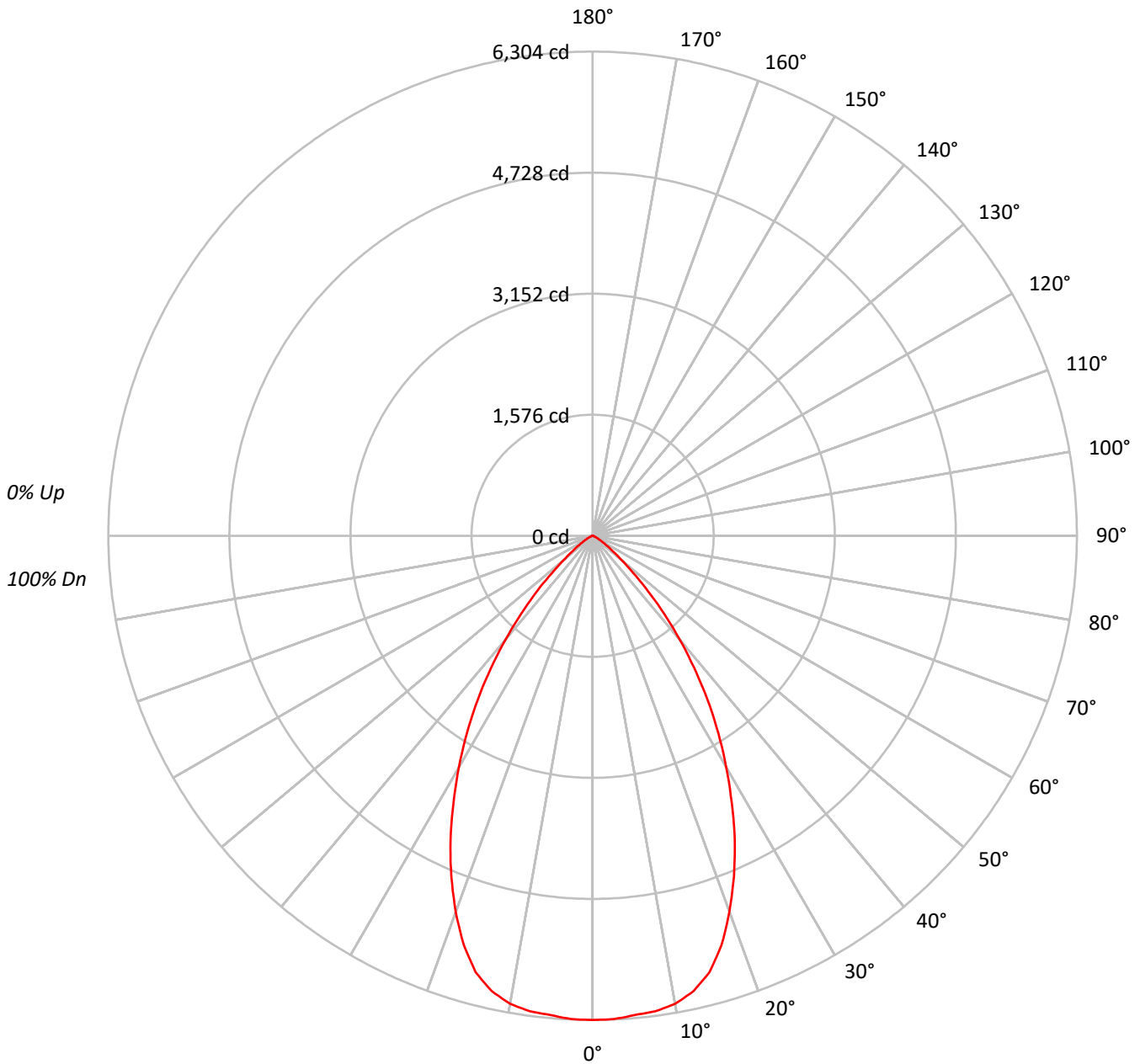
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	100	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93	93	93	93
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85	85	85	85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72	72	72	72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49	49	49	49
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46	46	46	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	368196
5°	367269
10°	366955
15°	355644
20°	323769
25°	282144
30°	234667
35°	185938
40°	134199
45°	84784
50°	44194
55°	23491
60°	12335
65°	6785
70°	2852
75°	3137
80°	2186
85°	1876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 84784 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.2	8.6
10°-20°	1632.6	23.5
20°-30°	1995.6	28.7
30°-40°	1619.2	23.3
40°-50°	806.9	11.6
50°-60°	225.1	3.2
60°-70°	51.1	0.7
70°-80°	13.3	0.2
80°-90°	3.4	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°	4224.4	60.8
0°-40°	5843.6	84.2
0°-60°	6875.5	99.0
0°-90°	6943.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6943.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6304	
5°	6264	596
15°	5882	1633
25°	4378	1996
35°	2608	1619
45°	1026	807
55°	231	225
65°	49	51
75°	14	13
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6304.3
2.5°	6299.7
5°	6264.5
7.5°	6244.1
10°	6187.6
12.5°	6072.7
15°	5881.9
17.5°	5583.6
20°	5209.3
22.5°	4805.4
25°	4378.3
27.5°	3921.6
30°	3479.7
32.5°	3043.3
35°	2607.9
37.5°	2173.4
40°	1760.2
42.5°	1373.0
45°	1026.5
47.5°	715.2
50°	486.4
52.5°	335.4
55°	230.7
57.5°	155.6
60°	105.6
62.5°	73.2
65°	49.1
67.5°	25.0
70°	16.7
72.5°	15.7
75°	13.9
77.5°	9.3
80°	6.5
82.5°	4.6
85°	2.8
87.5°	1.9
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)