

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: P754446

Luminaire Tested: LD4D80BD010-EU4DR7070959040-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754446
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: LD4D80BD010-EU4DR7070959040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8532.3 lumens
Efficiency: N/A
Efficacy: 108.1 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

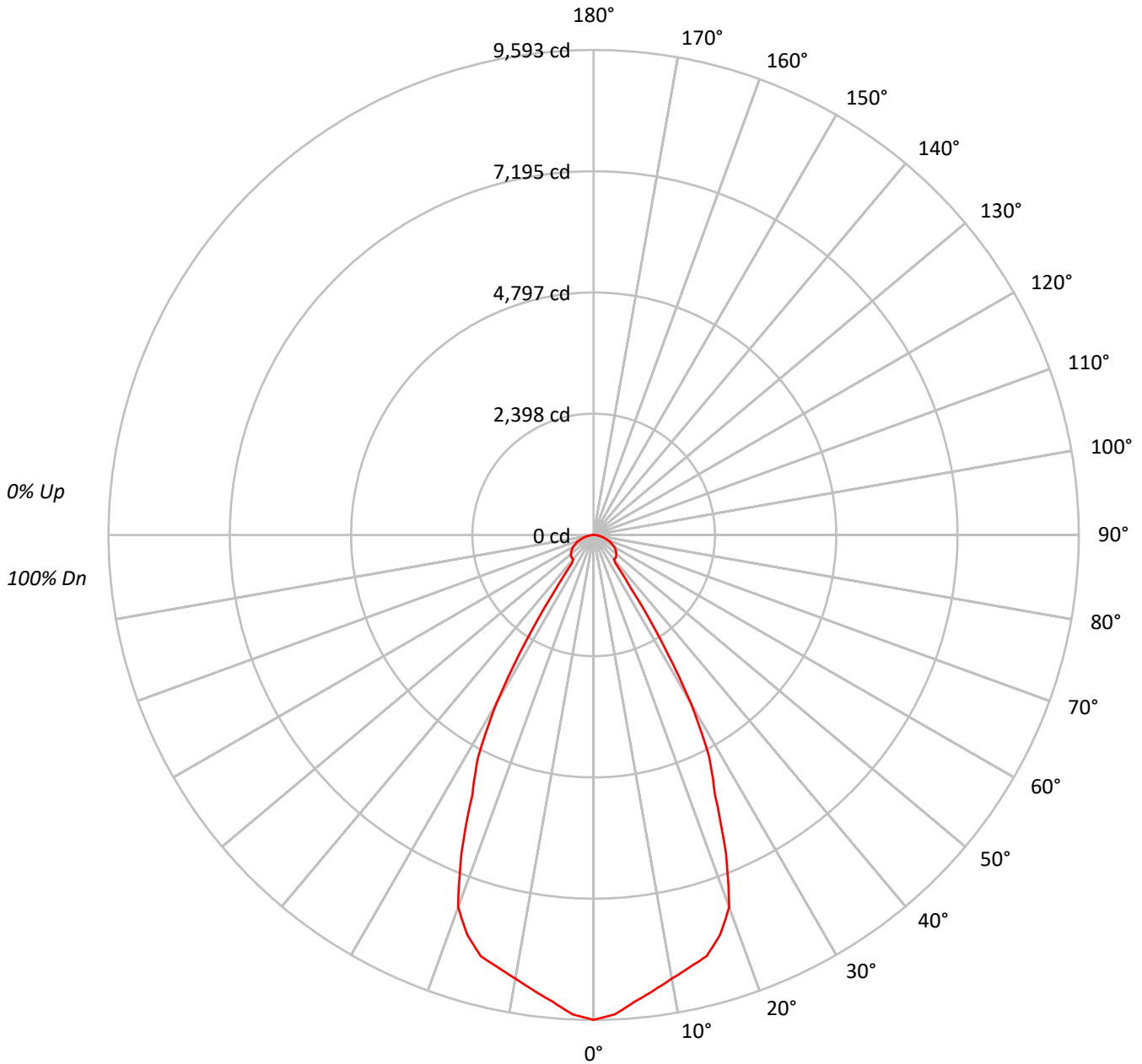
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	1048106
5°	1016968
10°	988620
15°	975651
20°	911056
25°	684432
30°	483837
35°	171383
40°	90113
45°	95987
50°	99387
55°	101265
60°	101897
65°	99742
70°	94112
75°	87216
80°	77393
85°	62807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 101920 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	874.6	10.3
10°-20°	2398.9	28.1
20°-30°	2642.1	31.0
30°-40°	1009.5	11.8
40°-50°	476.6	5.6
50°-60°	473.9	5.6
60°-70°	379.4	4.4
70°-80°	218.1	2.6
80°-90°	59.3	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°	5915.6	69.3
0°-40°	6925.1	81.2
0°-60°	7875.6	92.3
0°-90°	8532.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8532.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9593	
5°	9272	875
15°	8625	2399
25°	5677	2642
35°	1285	1009
45°	621	477
55°	532	474
65°	386	379
75°	207	218
85°	50	59
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9592.7
2.5°	9492.5
5°	9272.3
7.5°	9088.5
10°	8910.8
12.5°	8760.4
15°	8625.3
17.5°	8298.7
20°	7835.5
22.5°	6836.1
25°	5677.3
27.5°	4942.2
30°	3835.0
32.5°	2477.2
35°	1284.9
37.5°	694.1
40°	631.8
42.5°	627.3
45°	621.2
47.5°	607.5
50°	584.7
52.5°	558.9
55°	531.6
57.5°	501.2
60°	466.3
62.5°	426.8
65°	385.8
67.5°	340.2
70°	294.6
72.5°	249.1
75°	206.6
77.5°	162.5
80°	123.0
82.5°	86.6
85°	50.1
87.5°	19.7
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)