

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: P749179

Luminaire Tested: LD4D50D010-EU4DR3540509027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR3540509027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3883.7 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

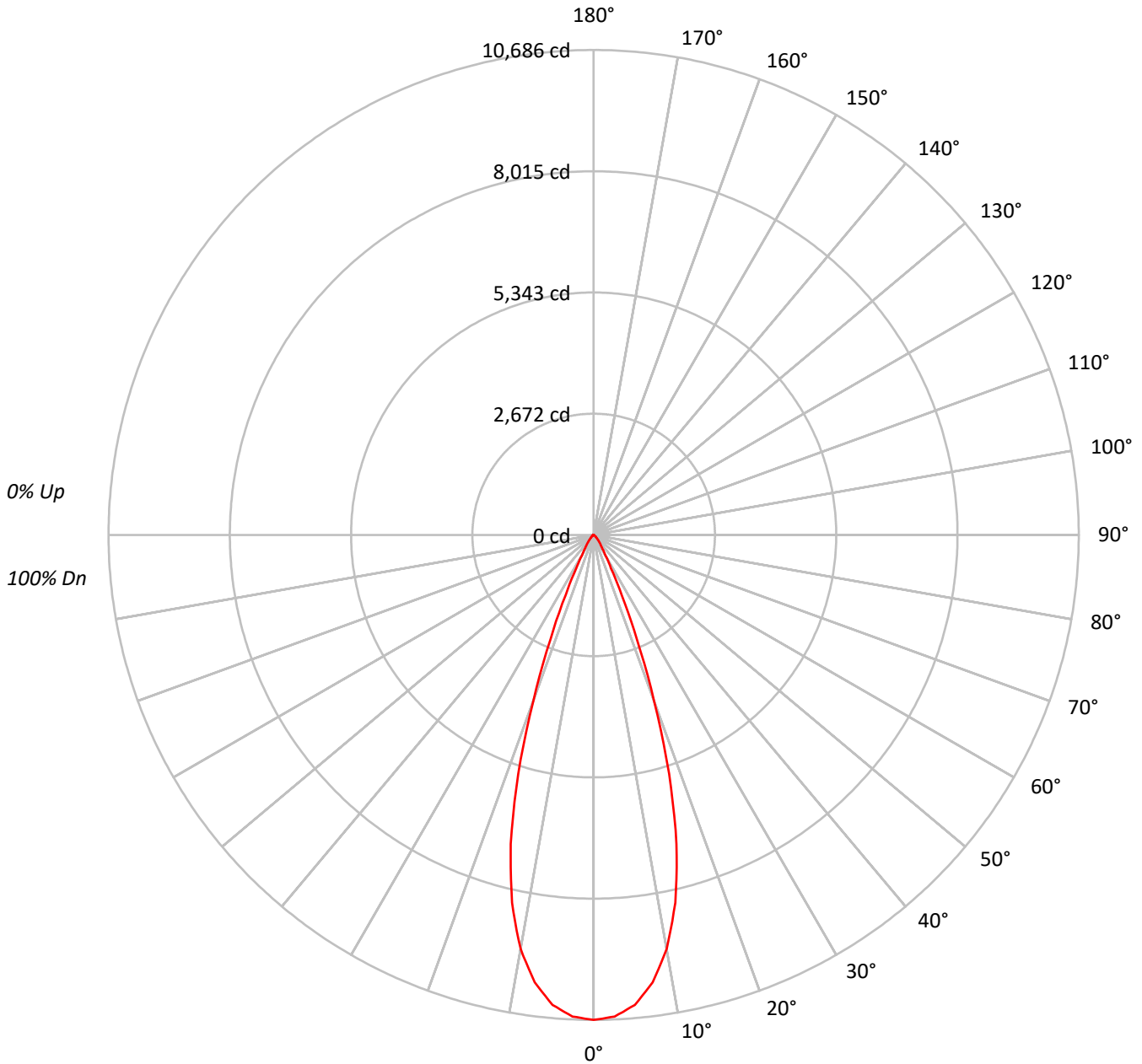
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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				100															
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96				96															
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92				92															
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88				88															
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84				84															
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81				81															
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78				78															
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75				75															
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72				72															
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70				70															
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68				68															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1167571
5°	1140137
10°	1027562
15°	797552
20°	452360
25°	175988
30°	65655
35°	35987
40°	23520
45°	14324
50°	9111
55°	6439
60°	4720
65°	2559
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14324 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	956.1	24.6
10°-20°	1866.6	48.1
20°-30°	761.3	19.6
30°-40°	182.2	4.7
40°-50°	75.9	2.0
50°-60°	31.4	0.8
60°-70°	9.8	0.3
70°-80°	0.2	0.0
80°-90°	0.2	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°	3584.0	92.3
0°-40°	3766.2	97.0
0°-60°	3873.5	99.7
0°-90°	3883.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3883.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10686	
5°	10395	956
15°	7051	1867
25°	1460	761
35°	270	182
45°	93	76
55°	34	31
65°	10	10
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10686.1
2.5°	10622.0
5°	10395.3
7.5°	9943.1
10°	9261.8
12.5°	8302.6
15°	7050.8
17.5°	5519.9
20°	3890.5
22.5°	2480.8
25°	1459.8
27.5°	825.2
30°	520.4
32.5°	365.4
35°	269.8
37.5°	208.6
40°	164.9
42.5°	127.0
45°	92.7
47.5°	69.3
50°	53.6
52.5°	42.5
55°	33.8
57.5°	27.4
60°	21.6
62.5°	15.7
65°	9.9
67.5°	3.5
70°	0.6
72.5°	0.6
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.6
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)