

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: P749378

Luminaire Tested: LD4D50D010-EU4DR4540509040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR4540509040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5168.5 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

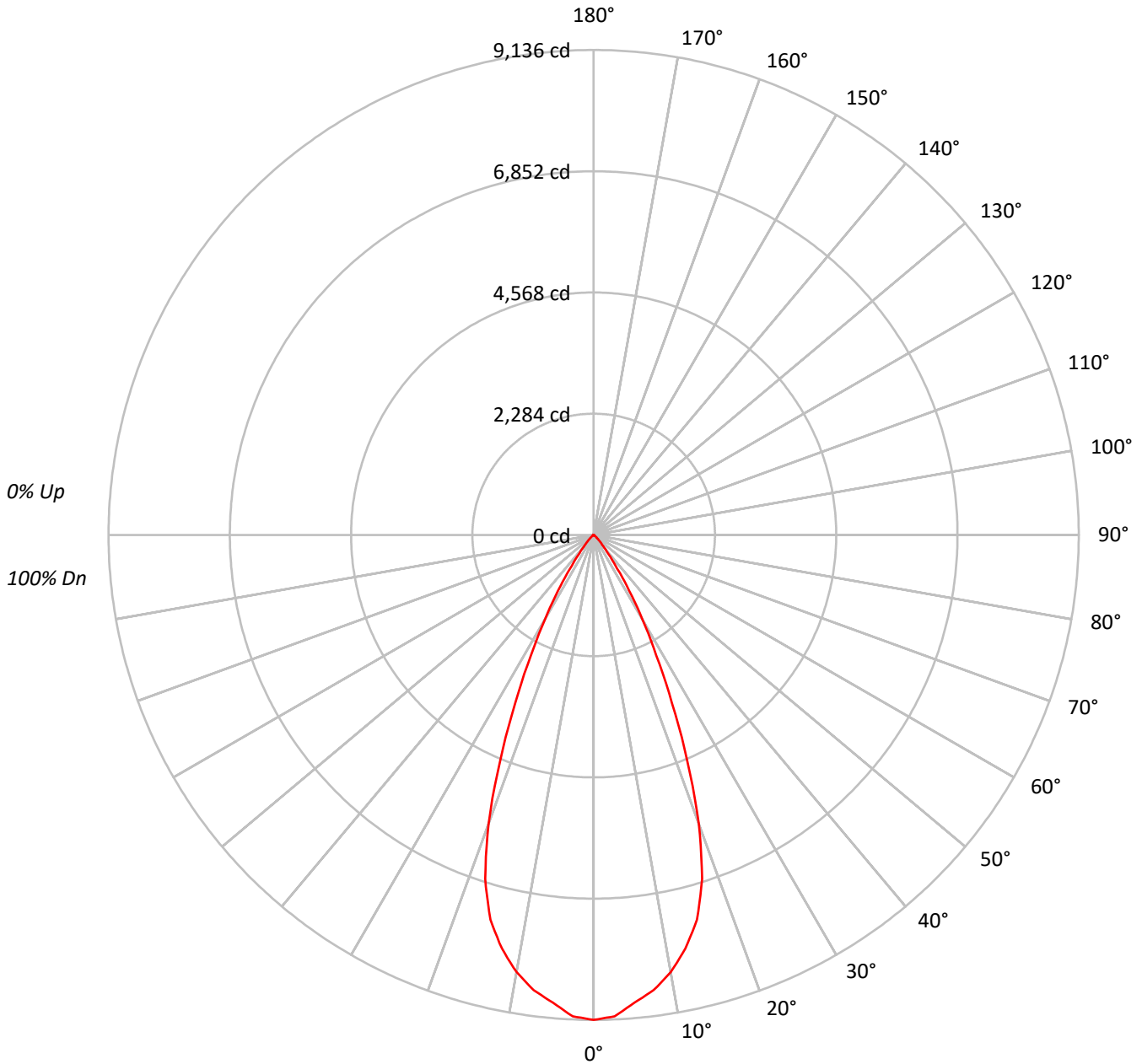
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95			95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90			90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85			85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81			81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77			77
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73			73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69			69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66			66
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63			63
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60			60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	998163
5°	969741
10°	927777
15°	849109
20°	673638
25°	420559
30°	231800
35°	104079
40°	40992
45°	19315
50°	9162
55°	4781
60°	2360
65°	569
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19315 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	830.8	16.1
10°-20°	2044.6	39.6
20°-30°	1619.1	31.3
30°-40°	539.2	10.4
40°-50°	107.0	2.1
50°-60°	24.3	0.5
60°-70°	3.5	0.1
70°-80°	0.1	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°	4494.5	87.0
0°-40°	5033.6	97.4
0°-60°	5164.9	99.9
0°-90°	5168.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5168.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9136	
5°	8842	831
15°	7507	2045
25°	3488	1619
35°	780	539
45°	125	107
55°	25	24
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9135.6
2.5°	9075.9
5°	8841.7
7.5°	8648.4
10°	8362.4
12.5°	7981.6
15°	7506.6
17.5°	6792.4
20°	5793.6
22.5°	4603.7
25°	3488.5
27.5°	2554.4
30°	1837.3
32.5°	1249.5
35°	780.3
37.5°	462.7
40°	287.4
42.5°	189.0
45°	125.0
47.5°	80.5
50°	53.9
52.5°	35.9
55°	25.1
57.5°	16.5
60°	10.8
62.5°	5.7
65°	2.2
67.5°	0.7
70°	0.7
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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