

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: P749362

Luminaire Tested: LD4D50D010-EU4DR4540509035-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749362
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-EU4DR4540509035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5008.8 lumens
Efficiency: N/A
Efficacy: 106.6 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

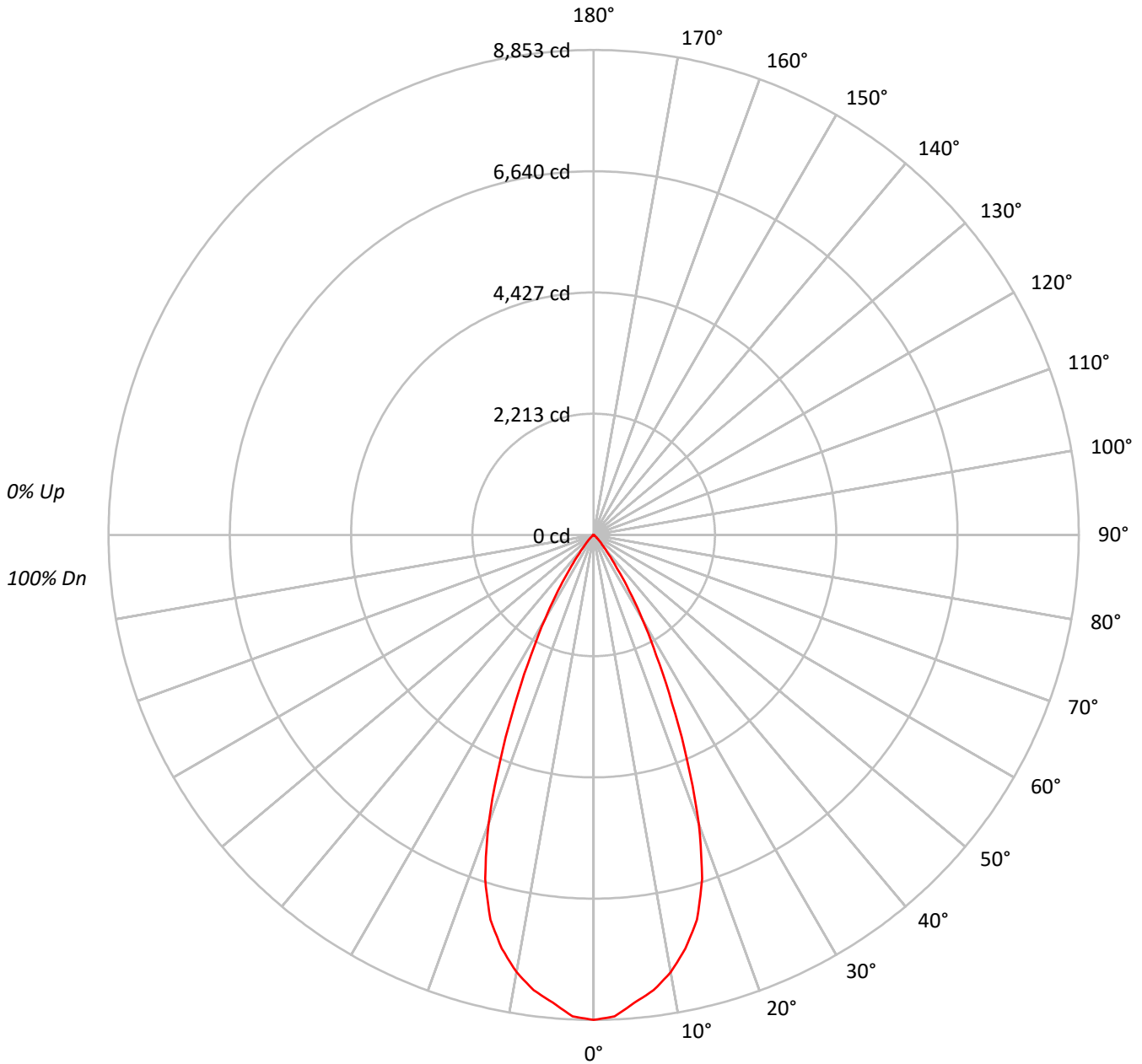
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	967307
5°	939766
10°	899109
15°	822867
20°	652826
25°	407563
30°	224634
35°	100864
40°	39722
45°	18728
50°	8873
55°	4648
60°	2273
65°	543
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18728 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	805.1	16.1
10°-20°	1981.4	39.6
20°-30°	1569.1	31.3
30°-40°	522.5	10.4
40°-50°	103.7	2.1
50°-60°	23.5	0.5
60°-70°	3.4	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°	4355.6	87.0
0°-40°	4878.1	97.4
0°-60°	5005.3	99.9
0°-90°	5008.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5008.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8853	
5°	8568	805
15°	7275	1981
25°	3381	1569
35°	756	522
45°	121	104
55°	24	24
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8853.2
2.5°	8795.4
5°	8568.4
7.5°	8381.1
10°	8104.0
12.5°	7734.9
15°	7274.6
17.5°	6582.5
20°	5614.6
22.5°	4461.4
25°	3380.7
27.5°	2475.5
30°	1780.5
32.5°	1210.9
35°	756.2
37.5°	448.4
40°	278.5
42.5°	183.1
45°	121.2
47.5°	78.0
50°	52.2
52.5°	34.8
55°	24.4
57.5°	16.0
60°	10.4
62.5°	5.6
65°	2.1
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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(END OF REPORT)