

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: P749329

Luminaire Tested: LD4D50D010-EU4DR4540509024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749329
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-EU4DR4540509024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4245.2 lumens
Efficiency: N/A
Efficacy: 90.3 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

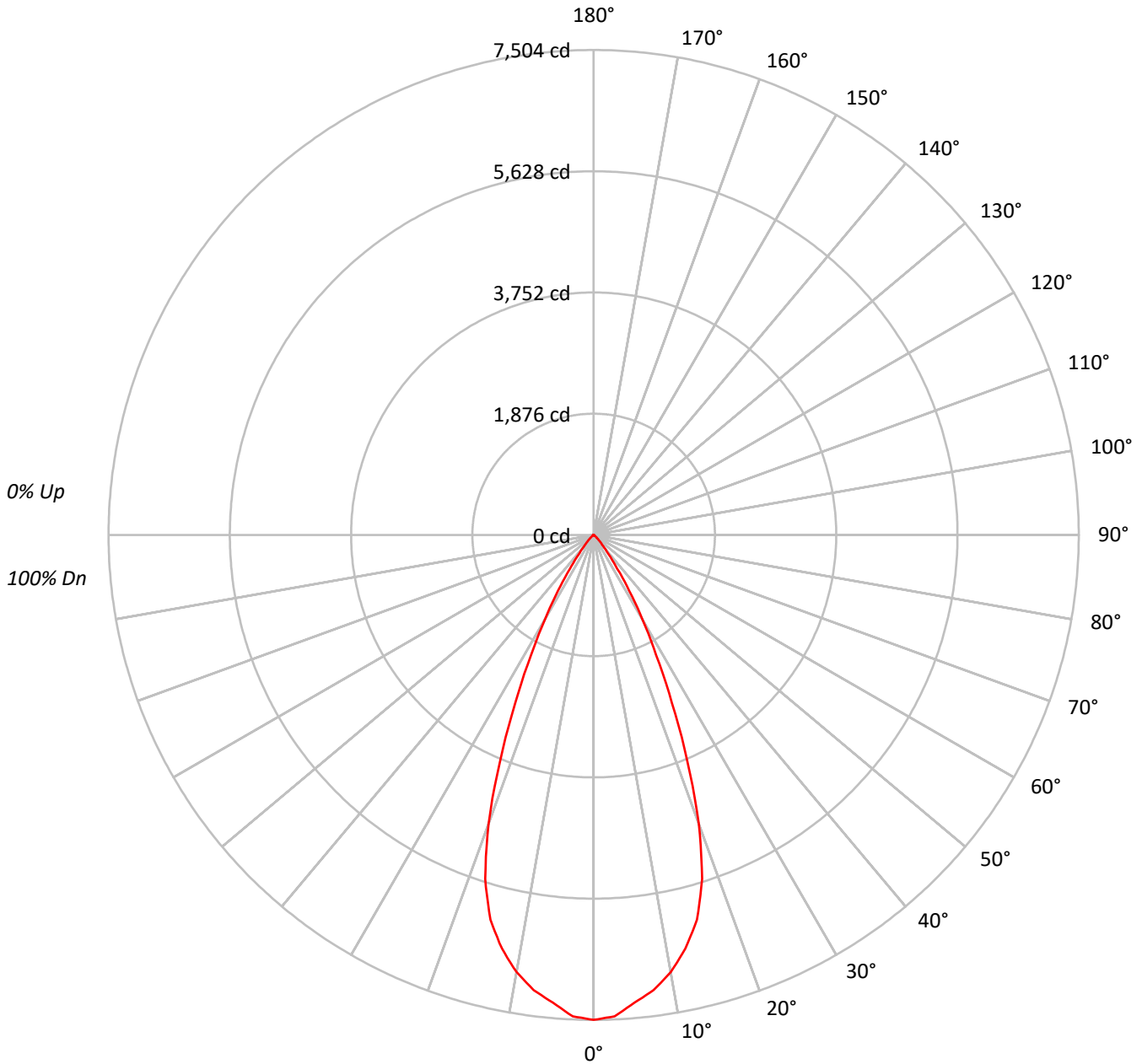
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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		0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102		100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97		95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91		90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87		85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82		81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78		77
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74		73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71		69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67		66
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64		63
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61		60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	819838
5°	796493
10°	762023
15°	697411
20°	553296
25°	345429
30°	190393
35°	85485
40°	33675
45°	15869
50°	7530
55°	3943
60°	1945
65°	465
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15869 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.3	16.1
10°-20°	1679.3	39.6
20°-30°	1329.9	31.3
30°-40°	442.9	10.4
40°-50°	87.9	2.1
50°-60°	20.0	0.5
60°-70°	2.9	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°	3691.5	87.0
0°-40°	4134.4	97.4
0°-60°	4242.3	99.9
0°-90°	4245.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4245.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7504	
5°	7262	682
15°	6166	1679
25°	2865	1330
35°	641	443
45°	103	88
55°	21	20
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7503.5
2.5°	7454.5
5°	7262.1
7.5°	7103.3
10°	6868.4
12.5°	6555.6
15°	6165.5
17.5°	5578.9
20°	4758.6
22.5°	3781.2
25°	2865.3
27.5°	2098.1
30°	1509.1
32.5°	1026.3
35°	640.9
37.5°	380.1
40°	236.1
42.5°	155.2
45°	102.7
47.5°	66.1
50°	44.3
52.5°	29.5
55°	20.7
57.5°	13.6
60°	8.9
62.5°	4.7
65°	1.8
67.5°	0.6
70°	0.6
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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