

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: P749641

Luminaire Tested: LD4D50D010-EU4DR6540509024-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P749641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR6540509024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3634.6 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

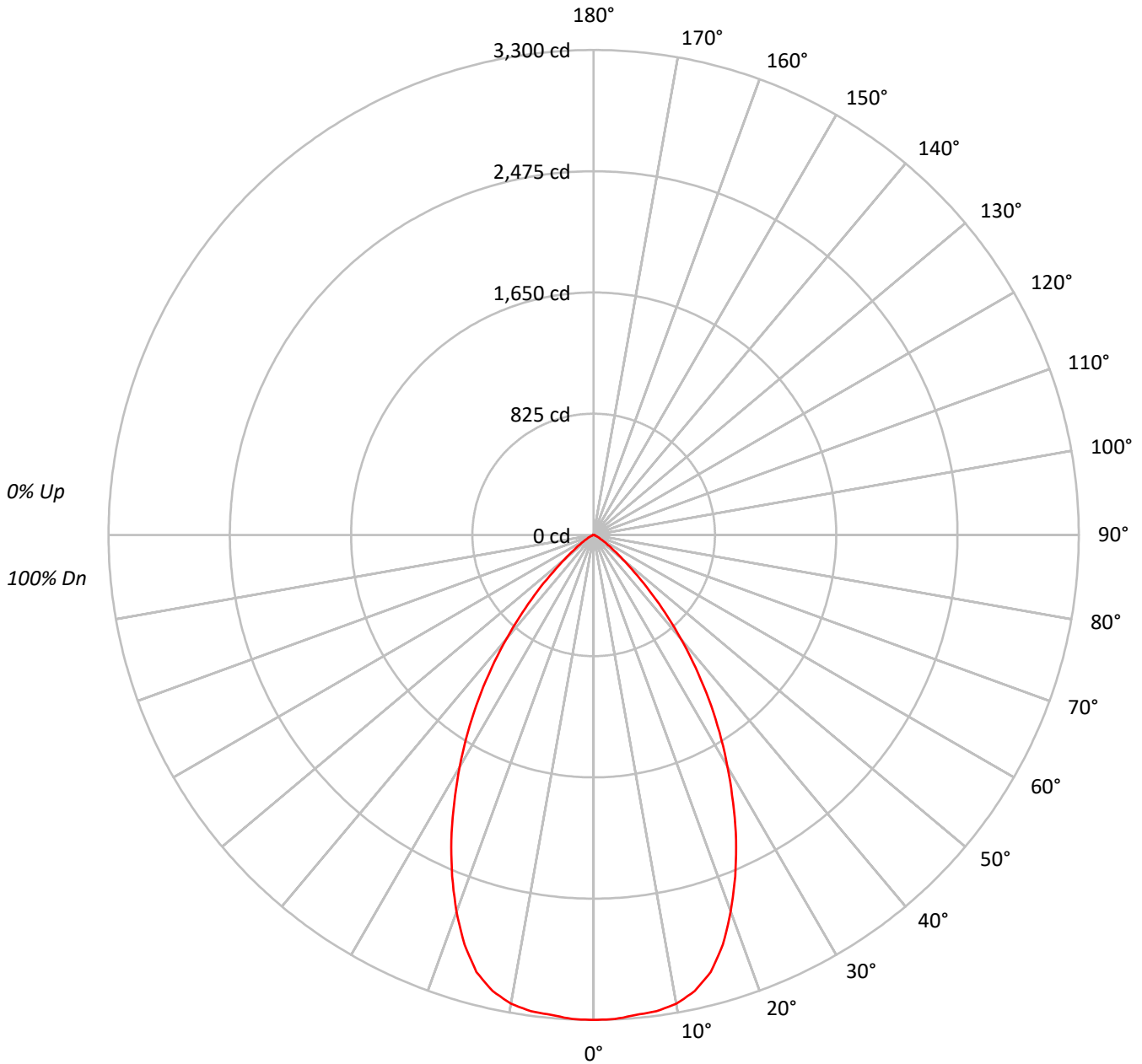
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93			93
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52			52
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			49
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46			46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	192739
5°	192250
10°	192088
15°	186169
20°	169483
25°	147694
30°	122840
35°	97329
40°	70248
45°	44379
50°	23133
55°	12300
60°	6459
65°	3552
70°	1486
75°	1647
80°	1144
85°	1005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 44379 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.1	8.6
10°-20°	854.6	23.5
20°-30°	1044.6	28.7
30°-40°	847.6	23.3
40°-50°	422.4	11.6
50°-60°	117.8	3.2
60°-70°	26.8	0.7
70°-80°	6.9	0.2
80°-90°	1.8	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°	2211.3	60.8
0°-40°	3058.9	84.2
0°-60°	3599.1	99.0
0°-90°	3634.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3634.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3300	
5°	3279	312
15°	3079	855
25°	2292	1045
35°	1365	848
45°	537	422
55°	121	118
65°	26	27
75°	7	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3300.1
2.5°	3297.7
5°	3279.2
7.5°	3268.6
10°	3239.0
12.5°	3178.9
15°	3079.0
17.5°	2922.8
20°	2726.9
22.5°	2515.4
25°	2291.9
27.5°	2052.8
30°	1821.5
32.5°	1593.1
35°	1365.1
37.5°	1137.7
40°	921.4
42.5°	718.7
45°	537.3
47.5°	374.4
50°	254.6
52.5°	175.6
55°	120.8
57.5°	81.5
60°	55.3
62.5°	38.3
65°	25.7
67.5°	13.1
70°	8.7
72.5°	8.2
75°	7.3
77.5°	4.8
80°	3.4
82.5°	2.4
85°	1.5
87.5°	1.0
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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