

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: P749705

Luminaire Tested: LD4D50D010-EU4DR6540509050-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P749705
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-EU4DR6540509050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4993.1 lumens
Efficiency: N/A
Efficacy: 106.2 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

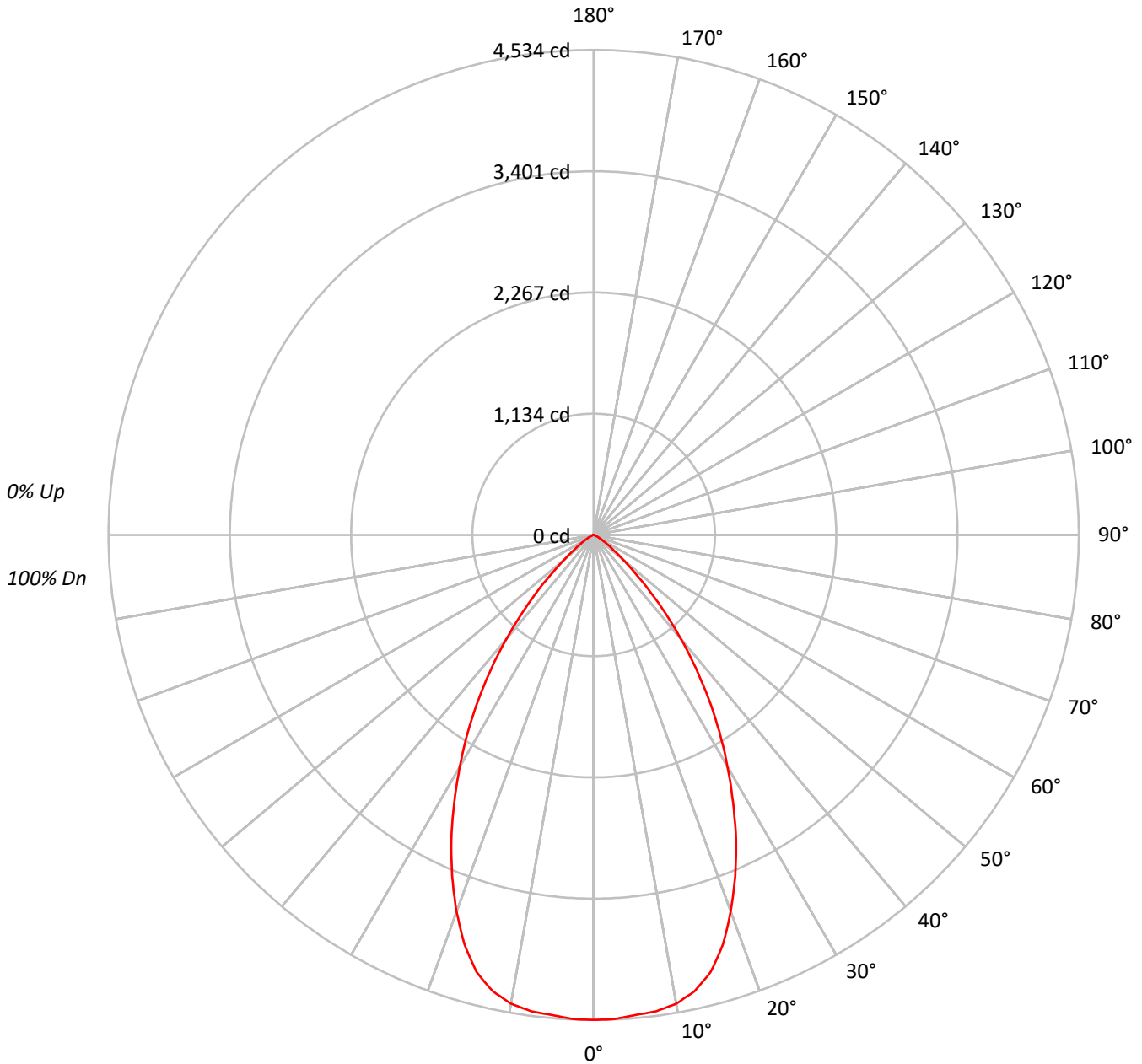
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	264786
5°	264114
10°	263889
15°	255757
20°	232834
25°	202901
30°	168753
35°	133712
40°	96506
45°	60972
50°	31783
55°	16893
60°	8866
65°	4878
70°	2049
75°	2257
80°	1581
85°	1340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 60972 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.7	8.6
10°-20°	1174.1	23.5
20°-30°	1435.1	28.7
30°-40°	1164.4	23.3
40°-50°	580.2	11.6
50°-60°	161.8	3.2
60°-70°	36.8	0.7
70°-80°	9.6	0.2
80°-90°	2.4	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°	3037.9	60.8
0°-40°	4202.3	84.2
0°-60°	4944.4	99.0
0°-90°	4993.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4993.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4534	
5°	4505	429
15°	4230	1174
25°	3149	1435
35°	1875	1164
45°	738	580
55°	166	162
65°	35	37
75°	10	10
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4533.7
2.5°	4530.3
5°	4505.0
7.5°	4490.4
10°	4449.7
12.5°	4367.1
15°	4229.9
17.5°	4015.3
20°	3746.2
22.5°	3455.7
25°	3148.6
27.5°	2820.1
30°	2502.3
32.5°	2188.6
35°	1875.4
37.5°	1563.0
40°	1265.8
42.5°	987.3
45°	738.2
47.5°	514.3
50°	349.8
52.5°	241.2
55°	165.9
57.5°	111.9
60°	75.9
62.5°	52.6
65°	35.3
67.5°	18.0
70°	12.0
72.5°	11.3
75°	10.0
77.5°	6.7
80°	4.7
82.5°	3.3
85°	2.0
87.5°	1.3
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)