

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: P749666

Luminaire Tested: LD4D50D010-EU4DR6540509030-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P749666
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-EU4DR6540509030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4687.0 lumens
Efficiency: N/A
Efficacy: 99.7 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

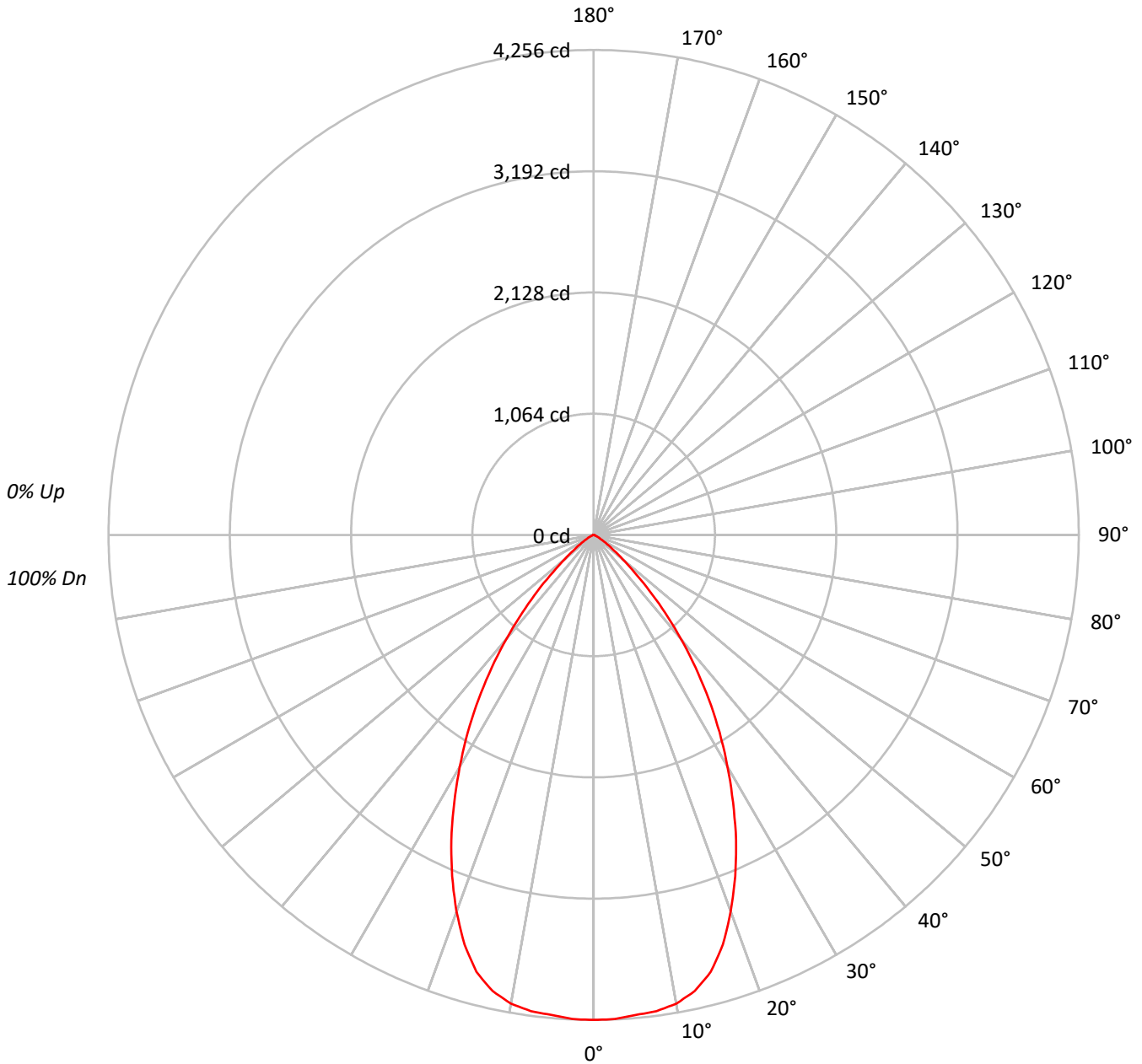
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P749666
CATALOG NUMBER: LD4D50D010-EU4DR6540509030-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P749666
 CATALOG NUMBER: LD4D50D010-EU4DR6540509030-4LBS1LI

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																			
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°	248544
5°	247916
10°	247704
15°	240073
20°	218552
25°	190457
30°	158407
35°	125513
40°	90589
45°	57230
50°	29829
55°	15854
60°	8328
65°	4574
70°	1930
75°	2121
80°	1480
85°	1273

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 57230 cd/sqm



TEST NUMBER: P749666

CATALOG NUMBER: LD4D50D010-EU4DR6540509030-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.4	8.6
10°-20°	1102.1	23.5
20°-30°	1347.1	28.7
30°-40°	1093.0	23.3
40°-50°	544.7	11.6
50°-60°	151.9	3.2
60°-70°	34.5	0.7
70°-80°	9.0	0.2
80°-90°	2.3	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°	2851.6	60.8
0°-40°	3944.6	84.2
0°-60°	4641.2	99.0
0°-90°	4687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4687.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4256	
5°	4229	402
15°	3970	1102
25°	2956	1347
35°	1760	1093
45°	693	545
55°	156	152
65°	33	35
75°	9	9
85°	2	2
90°	0	



TEST NUMBER: P749666

CATALOG NUMBER: LD4D50D010-EU4DR6540509030-4LBS1LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	4255.6
2.5°	4252.5
5°	4228.7
7.5°	4215.0
10°	4176.8
12.5°	4099.3
15°	3970.5
17.5°	3769.1
20°	3516.4
22.5°	3243.8
25°	2955.5
27.5°	2647.2
30°	2348.9
32.5°	2054.3
35°	1760.4
37.5°	1467.1
40°	1188.2
42.5°	926.8
45°	692.9
47.5°	482.8
50°	328.3
52.5°	226.4
55°	155.7
57.5°	105.1
60°	71.3
62.5°	49.4
65°	33.1
67.5°	16.9
70°	11.3
72.5°	10.6
75°	9.4
77.5°	6.3
80°	4.4
82.5°	3.1
85°	1.9
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)