

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: P749687

Luminaire Tested: LD4D50D010-EU4DR6540509040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR6540509040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4485.6 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

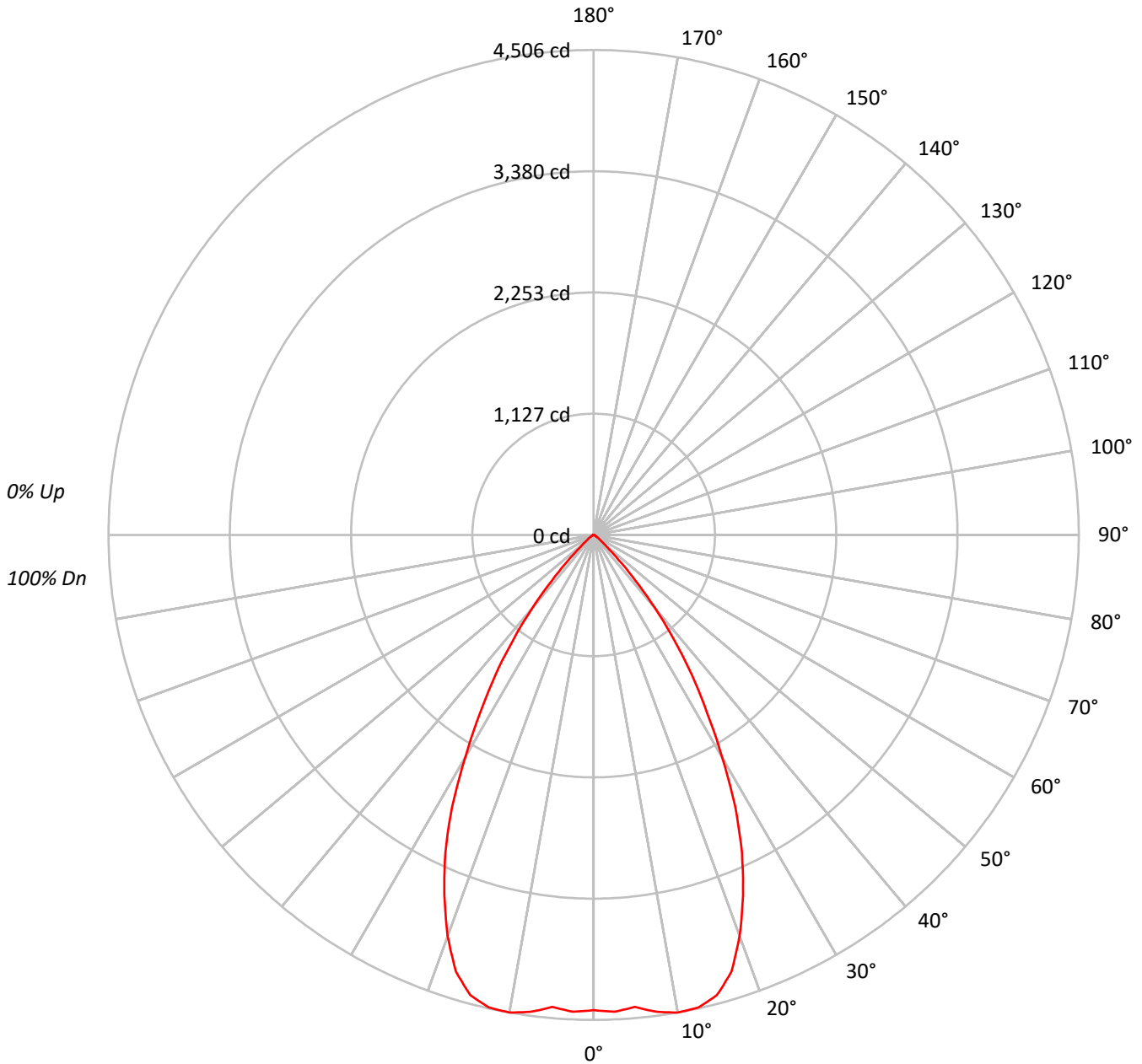
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P749687
CATALOG NUMBER: LD4D50D010-EU4DR6540509040-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P749687

CATALOG NUMBER: LD4D50D010-EU4DR6540509040-4LBDP1H

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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53																			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	482539
5°	482935
10°	499935
15°	500772
20°	461034
25°	392831
30°	300723
35°	212452
40°	125414
45°	50914
50°	18460
55°	10286
60°	5900
65°	3258
70°	3418
75°	2660
80°	2769
85°	2382

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 50914 cd/sqm



TEST NUMBER: P749687

CATALOG NUMBER: LD4D50D010-EU4DR6540509040-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.3	9.5
10°-20°	1226.7	27.3
20°-30°	1471.8	32.8
30°-40°	989.1	22.1
40°-50°	296.1	6.6
50°-60°	52.3	1.2
60°-70°	14.9	0.3
70°-80°	7.3	0.2
80°-90°	2.3	0.1
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°	3123.7	69.6
0°-40°	4112.8	91.7
0°-60°	4461.2	99.5
0°-90°	4485.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4485.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4416	
5°	4403	425
15°	4427	1227
25°	3258	1472
35°	1593	989
45°	330	296
55°	54	52
65°	13	15
75°	6	7
85°	2	2
90°	0	



TEST NUMBER: P749687

CATALOG NUMBER: LD4D50D010-EU4DR6540509040-4LBDP1H

CANDELA DISTRIBUTION (FULL):

0°	
0°	4416.4
2.5°	4435.2
5°	4403.2
7.5°	4469.7
10°	4506.1
12.5°	4497.3
15°	4427.1
17.5°	4255.1
20°	3965.1
22.5°	3623.7
25°	3258.5
27.5°	2846.1
30°	2383.6
32.5°	1964.4
35°	1592.8
37.5°	1225.7
40°	879.3
42.5°	574.2
45°	329.5
47.5°	174.5
50°	108.6
52.5°	75.3
55°	54.0
57.5°	38.9
60°	27.0
62.5°	17.6
65°	12.6
67.5°	11.3
70°	10.7
72.5°	8.2
75°	6.3
77.5°	5.6
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)