

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



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: P749584

Luminaire Tested: LD4D50D010-EU4DR6040509030-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR6040509030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5095.8 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

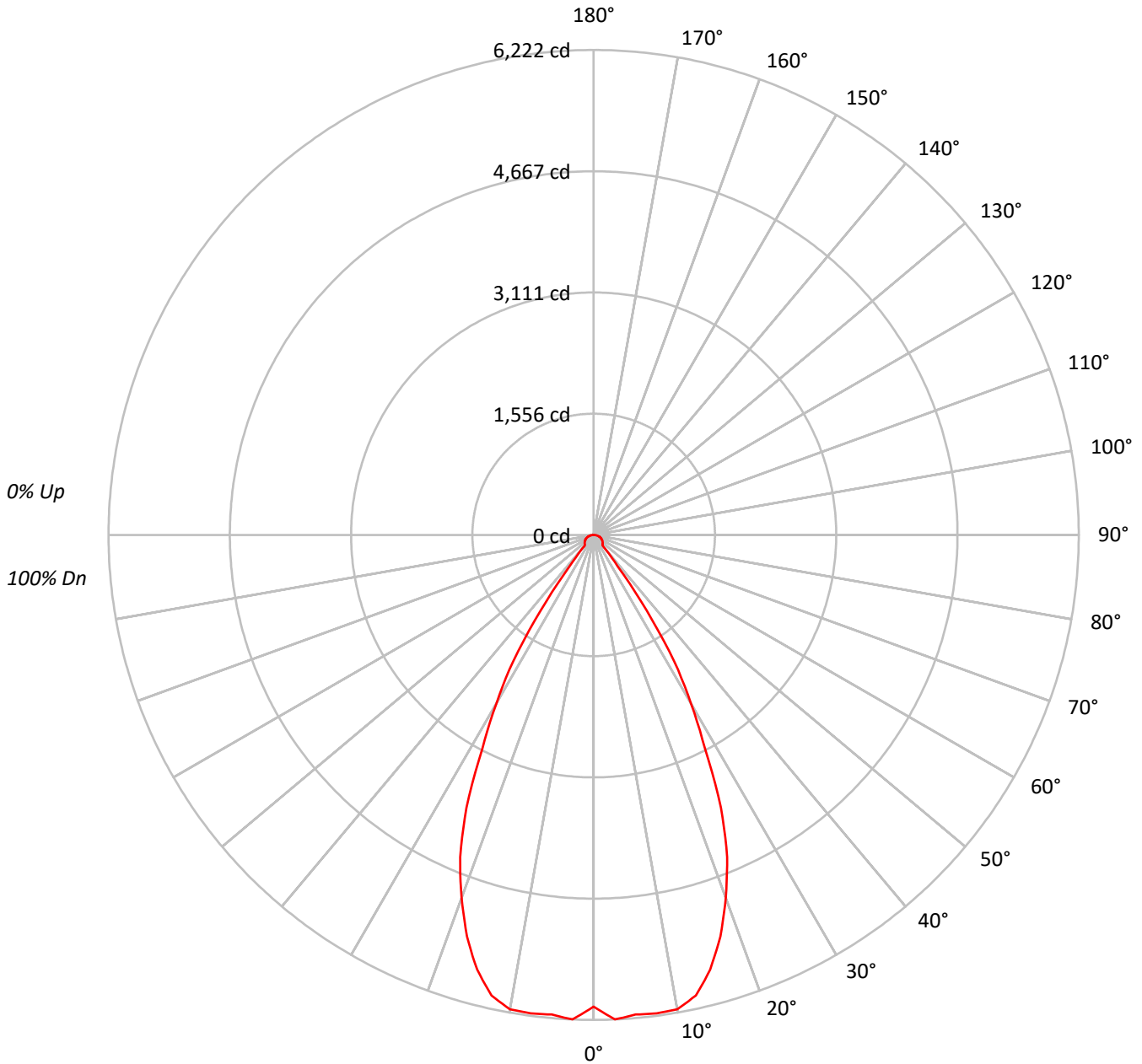
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P749584
CATALOG NUMBER: LD4D50D010-EU4DR6040509030-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P749584

CATALOG NUMBER: LD4D50D010-EU4DR6040509030-4LBDP1LI

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			100																
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86																
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			80																
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75																
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70																
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66																
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			62																
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59																
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55																
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	661246
5°	677504
10°	685692
15°	653206
20°	575934
25°	465828
30°	315093
35°	157899
40°	25616
45°	25063
50°	25565
55°	25964
60°	26681
65°	27275
70°	27921
75°	28242
80°	27245
85°	22691

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 28242 cd/sqm



TEST NUMBER: P749584

CATALOG NUMBER: LD4D50D010-EU4DR6040509030-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.4	11.6
10°-20°	1597.3	31.3
20°-30°	1718.6	33.7
30°-40°	747.0	14.7
40°-50°	125.5	2.5
50°-60°	122.0	2.4
60°-70°	104.3	2.0
70°-80°	69.8	1.4
80°-90°	20.9	0.4
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°	3906.3	76.7
0°-40°	4653.3	91.3
0°-60°	4900.8	96.2
0°-90°	5095.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5095.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6052	
5°	6177	590
15°	5775	1597
25°	3864	1719
35°	1184	747
45°	162	125
55°	136	122
65°	106	104
75°	67	70
85°	18	21
90°	0	



TEST NUMBER: P749584

CATALOG NUMBER: LD4D50D010-EU4DR6040509030-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	6052.0
2.5°	6222.1
5°	6177.2
7.5°	6191.4
10°	6180.4
12.5°	6052.8
15°	5774.7
17.5°	5401.4
20°	4953.3
22.5°	4473.6
25°	3864.0
27.5°	3090.6
30°	2497.5
32.5°	1924.9
35°	1183.8
37.5°	506.4
40°	179.6
42.5°	165.4
45°	162.2
47.5°	156.7
50°	150.4
52.5°	143.3
55°	136.3
57.5°	129.2
60°	122.1
62.5°	114.2
65°	105.5
67.5°	96.9
70°	87.4
72.5°	77.2
75°	66.9
77.5°	55.1
80°	43.3
82.5°	30.7
85°	18.1
87.5°	6.3
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)