

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: P749221

Luminaire Tested: LD4D50D010-EU4DR3540509040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR3540509040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4585.1 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

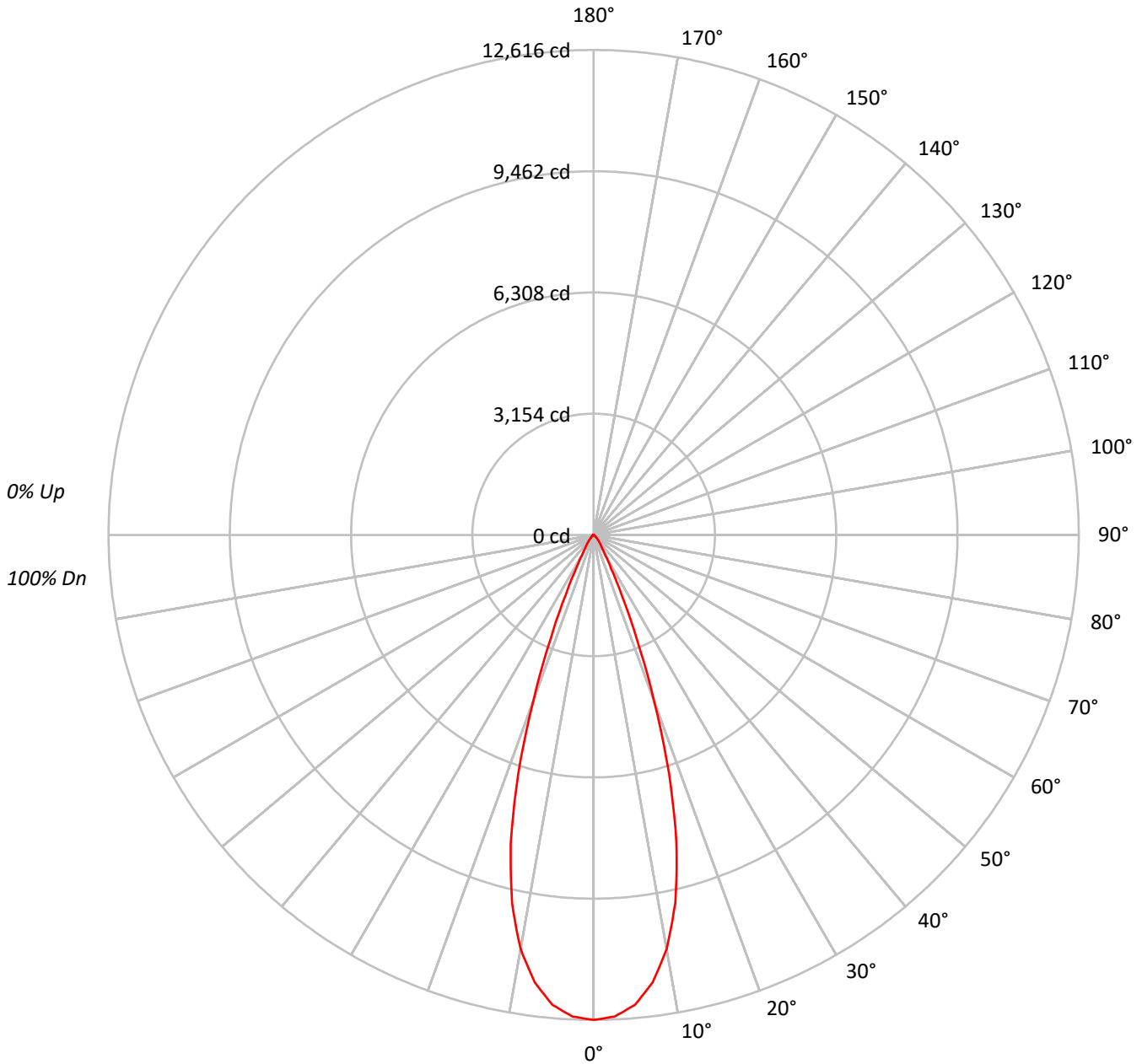
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P749221
CATALOG NUMBER: LD4D50D010-EU4DR3540509040-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P749221

CATALOG NUMBER: LD4D50D010-EU4DR3540509040-4LBDP1MW

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	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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96						96													
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92						92													
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88						88													
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84						84													
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81						81													
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78						78													
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75						75													
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72						72													
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70						70													
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68						68													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1378423
5°	1346025
10°	1213131
15°	941581
20°	534053
25°	207766
30°	77515
35°	42482
40°	27770
45°	16904
50°	10760
55°	7601
60°	5572
65°	3025
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16904 cd/sqm



TEST NUMBER: P749221

CATALOG NUMBER: LD4D50D010-EU4DR3540509040-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1128.7	24.6
10°-20°	2203.7	48.1
20°-30°	898.8	19.6
30°-40°	215.1	4.7
40°-50°	89.6	2.0
50°-60°	37.1	0.8
60°-70°	11.6	0.3
70°-80°	0.3	0.0
80°-90°	0.2	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°	4231.2	92.3
0°-40°	4446.3	97.0
0°-60°	4573.0	99.7
0°-90°	4585.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4585.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12616	
5°	12272	###
15°	8324	2204
25°	1723	899
35°	318	215
45°	109	90
55°	40	37
65°	12	12
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P749221

CATALOG NUMBER: LD4D50D010-EU4DR3540509040-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	12615.9
2.5°	12540.2
5°	12272.5
7.5°	11738.7
10°	10934.4
12.5°	9801.9
15°	8324.1
17.5°	6516.7
20°	4593.1
22.5°	2928.8
25°	1723.4
27.5°	974.2
30°	614.4
32.5°	431.4
35°	318.5
37.5°	246.3
40°	194.7
42.5°	150.0
45°	109.4
47.5°	81.9
50°	63.3
52.5°	50.2
55°	39.9
57.5°	32.3
60°	25.5
62.5°	18.6
65°	11.7
67.5°	4.1
70°	0.7
72.5°	0.7
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.7
85°	0.0
87.5°	0.0
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

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)