

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: P749756

Luminaire Tested: LD4D50D010-EU4DR7040509035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR7040509035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5196.3 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

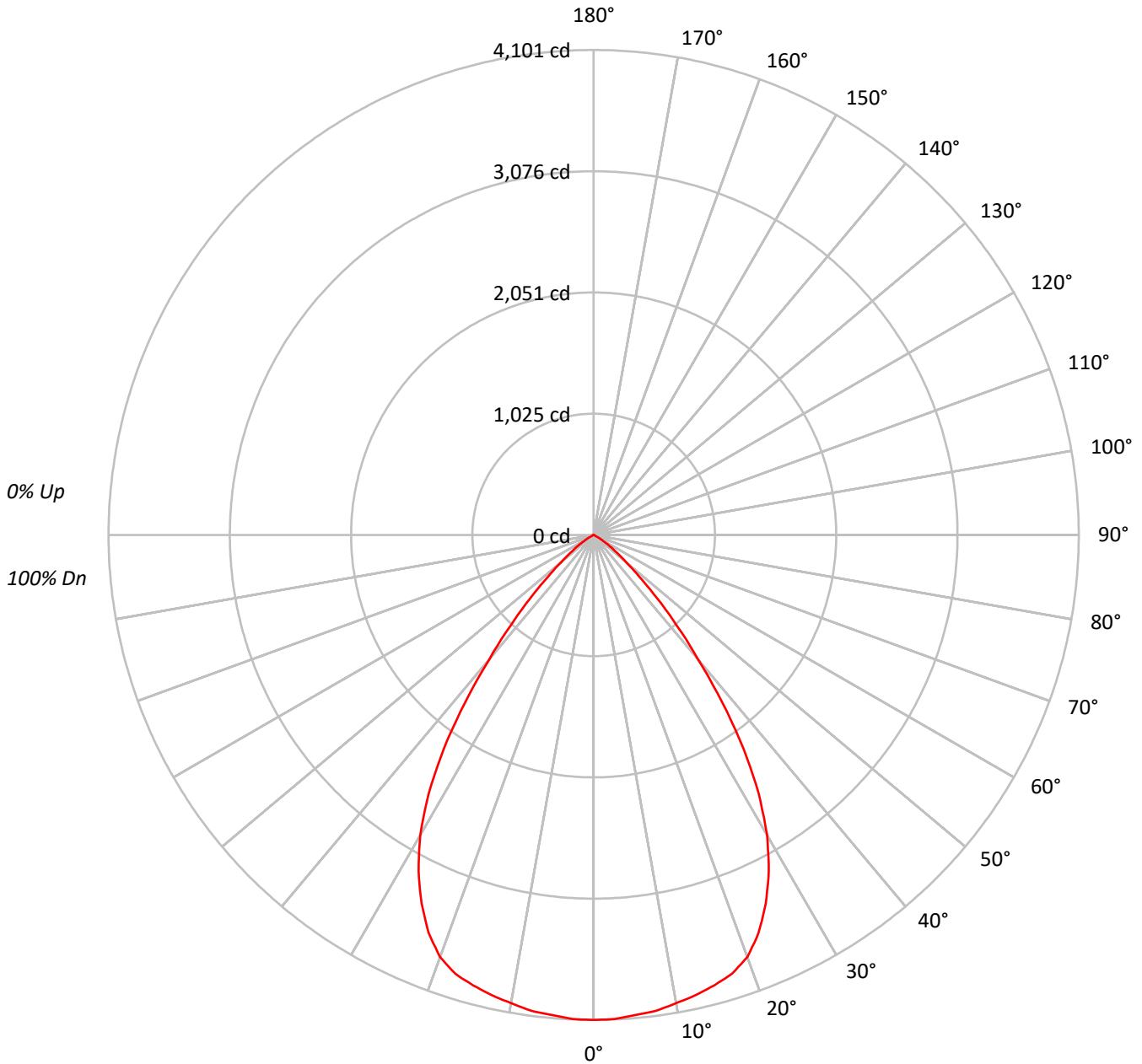
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P749756
CATALOG NUMBER: LD4D50D010-EU4DR7040509035-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P749756

CATALOG NUMBER: LD4D50D010-EU4DR7040509035-4LBS1H

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
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	106	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	85	82	87	84	81	85	82	79	78		
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71		
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65		
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60		
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56		
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51		
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48		
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	448122
5°	447004
10°	446026
15°	445911
20°	441546
25°	414773
30°	369772
35°	294829
40°	195759
45°	117032
50°	60683
55°	31888
60°	11276
65°	181
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 117032 cd/sqm



TEST NUMBER: P749756

CATALOG NUMBER: LD4D50D010-EU4DR7040509035-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.6	7.5
10°-20°	1111.6	21.4
20°-30°	1568.1	30.2
30°-40°	1353.7	26.1
40°-50°	606.2	11.7
50°-60°	158.7	3.1
60°-70°	10.3	0.2
70°-80°	0.0	0.0
80°-90°	0.0	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°	3067.3	59.0
0°-40°	4421.0	85.1
0°-60°	5185.9	99.8
0°-90°	5196.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5196.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4101	
5°	4076	388
15°	3942	1112
25°	3440	1568
35°	2210	1354
45°	757	606
55°	167	159
65°	1	10
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P749756
CATALOG NUMBER: LD4D50D010-EU4DR7040509035-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	4101.4
2.5°	4096.9
5°	4075.6
7.5°	4057.9
10°	4020.2
12.5°	3986.3
15°	3942.1
17.5°	3891.2
20°	3797.5
22.5°	3643.4
25°	3440.5
27.5°	3205.3
30°	2930.9
32.5°	2595.3
35°	2210.4
37.5°	1785.5
40°	1372.5
42.5°	1042.9
45°	757.4
47.5°	522.2
50°	357.0
52.5°	246.3
55°	167.4
57.5°	101.0
60°	51.6
62.5°	16.2
65°	0.7
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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)