

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: P742777

Luminaire Tested: LD4D10D010-EU4DR700210IC9040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P742777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR700210IC9040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1094.4 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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

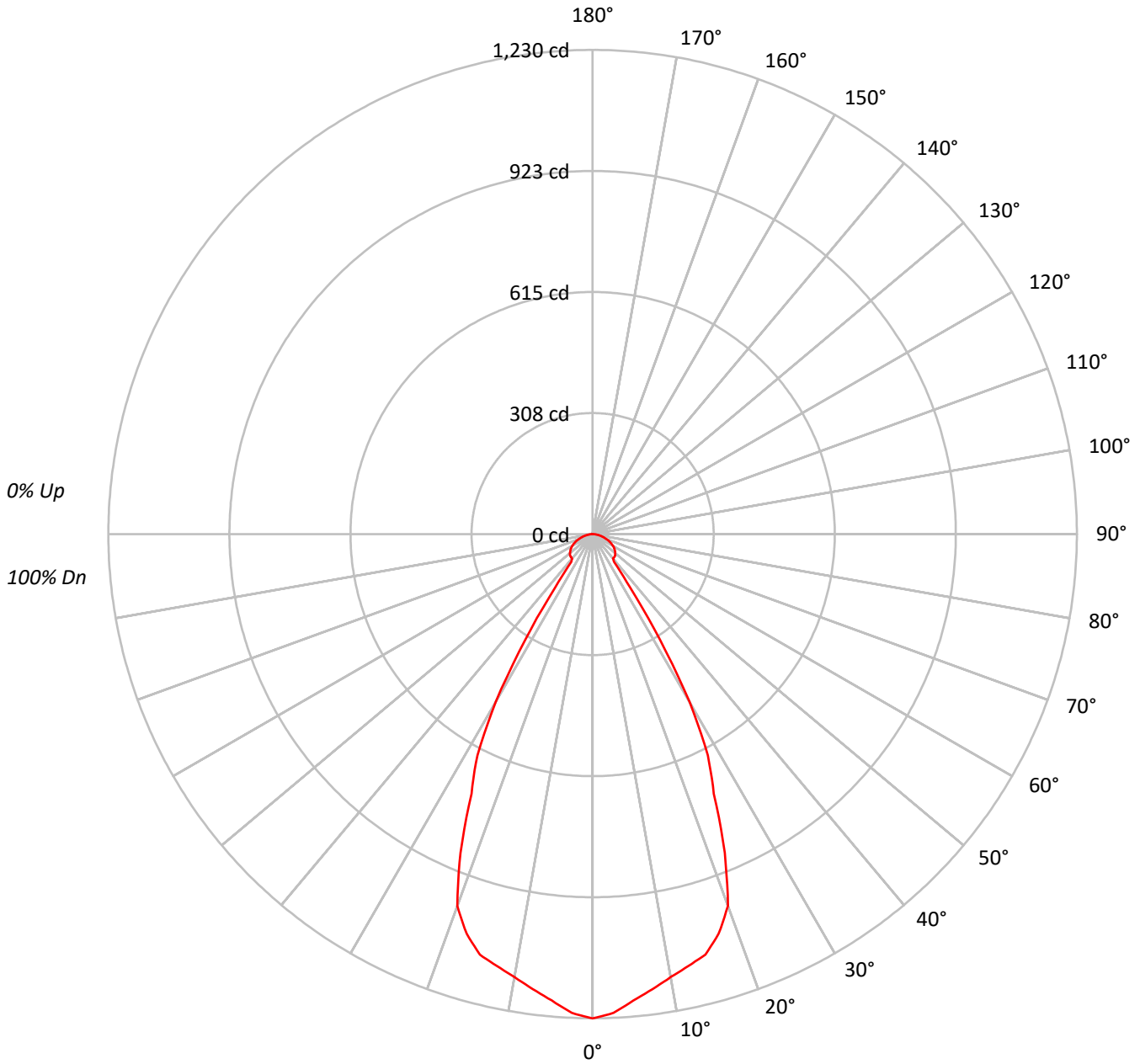


Downlight



TEST NUMBER: P742777
CATALOG NUMBER: LD4D10D010-EU4DR700210IC9040-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P742777

CATALOG NUMBER: LD4D10D010-EU4DR700210IC9040-4LBDP1H

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	134434
5°	130440
10°	126801
15°	125139
20°	116854
25°	87789
30°	62060
35°	21981
40°	11553
45°	12315
50°	12748
55°	12991
60°	13068
65°	12797
70°	12075
75°	11187
80°	9941
85°	8023

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 13076 cd/sqm



TEST NUMBER: P742777

CATALOG NUMBER: LD4D10D010-EU4DR700210IC9040-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	10.2
10°-20°	307.7	28.1
20°-30°	338.9	31.0
30°-40°	129.5	11.8
40°-50°	61.1	5.6
50°-60°	60.8	5.6
60°-70°	48.7	4.4
70°-80°	28.0	2.6
80°-90°	7.6	0.7
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°	758.7	69.3
0°-40°	888.2	81.2
0°-60°	1010.1	92.3
0°-90°	1094.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1094.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1230	
5°	1189	112
15°	1106	308
25°	728	339
35°	165	129
45°	80	61
55°	68	61
65°	50	49
75°	26	28
85°	6	8
90°	0	



TEST NUMBER: P742777

CATALOG NUMBER: LD4D10D010-EU4DR700210IC9040-4LBDP1H

CANDELA DISTRIBUTION (FULL):

0°	
0°	1230.4
2.5°	1217.5
5°	1189.3
7.5°	1165.7
10°	1142.9
12.5°	1123.6
15°	1106.3
17.5°	1064.4
20°	1005.0
22.5°	876.8
25°	728.2
27.5°	633.9
30°	491.9
32.5°	317.7
35°	164.8
37.5°	89.0
40°	81.0
42.5°	80.4
45°	79.7
47.5°	77.9
50°	75.0
52.5°	71.7
55°	68.2
57.5°	64.3
60°	59.8
62.5°	54.7
65°	49.5
67.5°	43.7
70°	37.8
72.5°	32.0
75°	26.5
77.5°	20.9
80°	15.8
82.5°	11.1
85°	6.4
87.5°	2.5
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)