

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: P777945

Luminaire Tested: LERS4D10D010-EC4DR200210IC9027-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D10D010-EC4DR200210IC9027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1079.5 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
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



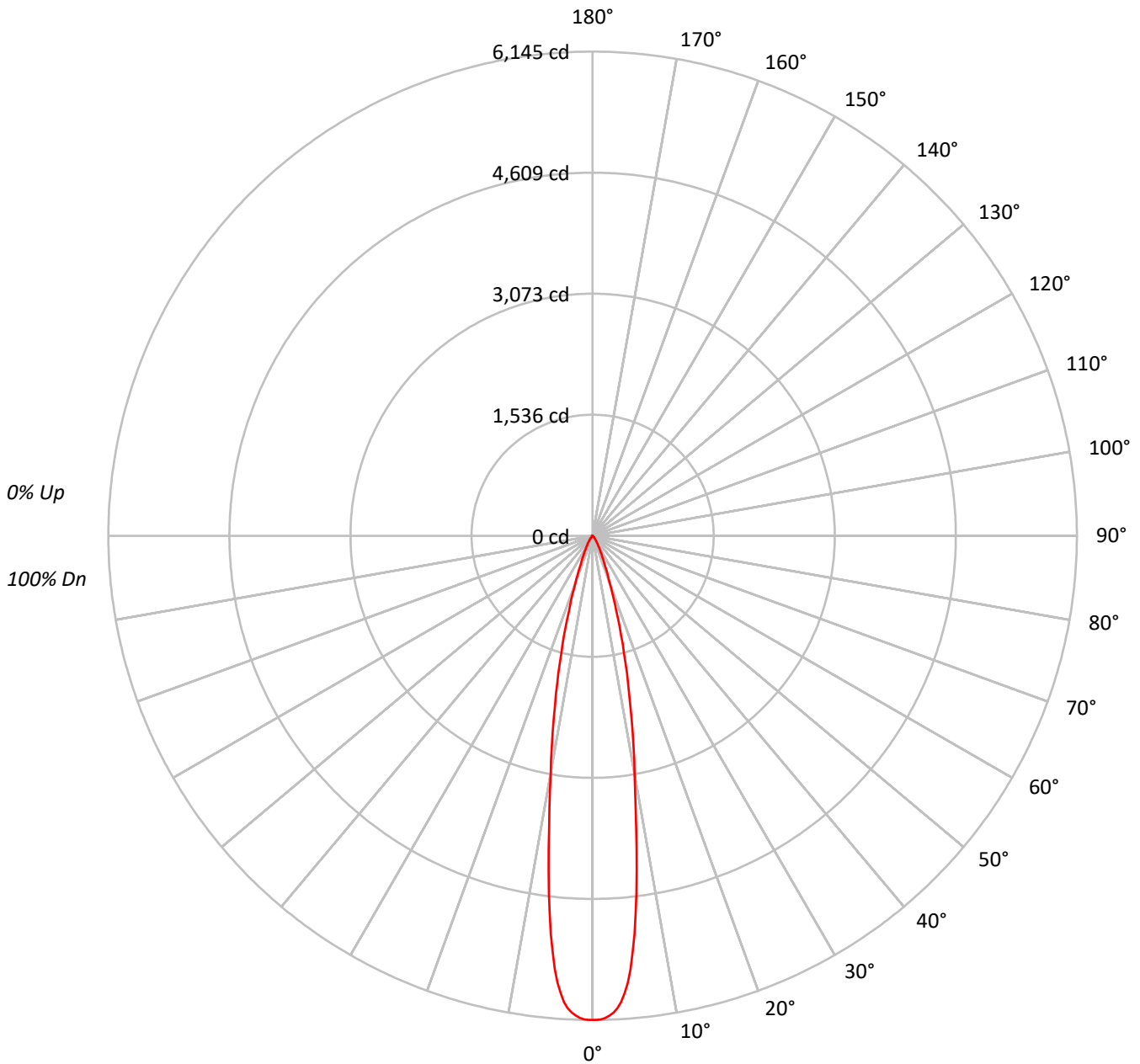
Downlight



TEST NUMBER: P777945

CATALOG NUMBER: LERS4D10D010-EC4DR200210IC9027-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P777945

CATALOG NUMBER: LERS4D10D010-EC4DR200210IC9027-4LBS1H

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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	98	98	97															
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	98	96	95															
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	98	96	95															
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	93	91	89															
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	91	88	86															
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	88	86	84															
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	86	84	82															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	84	82	80															
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	82	80	78															
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	81	78	76															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	671375
5°	605708
10°	339962
15°	172806
20°	73159
25°	33780
30°	17877
35°	9630
40°	5149
45°	3044
50°	1768
55°	933
60°	590
65°	414
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3044 cd/sqm



TEST NUMBER: P777945

CATALOG NUMBER: LERS4D10D010-EC4DR200210IC9027-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.5	40.5
10°-20°	430.8	39.9
20°-30°	140.7	13.0
30°-40°	47.9	4.4
40°-50°	16.1	1.5
50°-60°	4.8	0.4
60°-70°	1.6	0.1
70°-80°	0.1	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°	1009.0	93.5
0°-40°	1056.9	97.9
0°-60°	1077.9	99.8
0°-90°	1079.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1079.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6145	
5°	5523	437
15°	1528	431
25°	280	141
35°	72	48
45°	20	16
55°	5	5
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P777945

CATALOG NUMBER: LERS4D10D010-EC4DR200210IC9027-4LBS1H

CANDELA DISTRIBUTION (FULL):

0°	
0°	6144.7
0.5°	6144.7
1°	6137.1
1.5°	6121.8
2°	6093.9
2.5°	6056.6
3°	6004.1
3.5°	5930.8
4°	5821.9
4.5°	5689.5
5°	5522.6
5.5°	5303.2
6°	5078.3
6.5°	4820.6
7°	4568.3
7.5°	4272.9
8°	4009.1
8.5°	3743.8
9°	3498.6
9.5°	3273.7
10°	3064.2
12.5°	2200.2
15°	1527.7
17.5°	998.0
20°	629.2
22.5°	407.6
25°	280.2
27.5°	197.0
30°	141.7
32.5°	101.8
35°	72.2
37.5°	50.3
40°	36.1
42.5°	26.3
45°	19.7
47.5°	15.3
50°	10.4
52.5°	6.6
55°	4.9
57.5°	3.8
60°	2.7
62.5°	2.2
65°	1.6



TEST NUMBER: P777945

CATALOG NUMBER: LERS4D10D010-EC4DR200210IC9027-4LBS1H

CANDELA DISTRIBUTION (continued):

	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





67.5°		1.1
70°		0.5

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

Scaled Data Report



(END OF REPORT)