

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: P777957

Luminaire Tested: LERS4D10D010-EC4DR200210IC9040-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777957
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-EC4DR200210IC9040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1209.4 lumens
Efficiency: N/A
Efficacy: 103.4 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



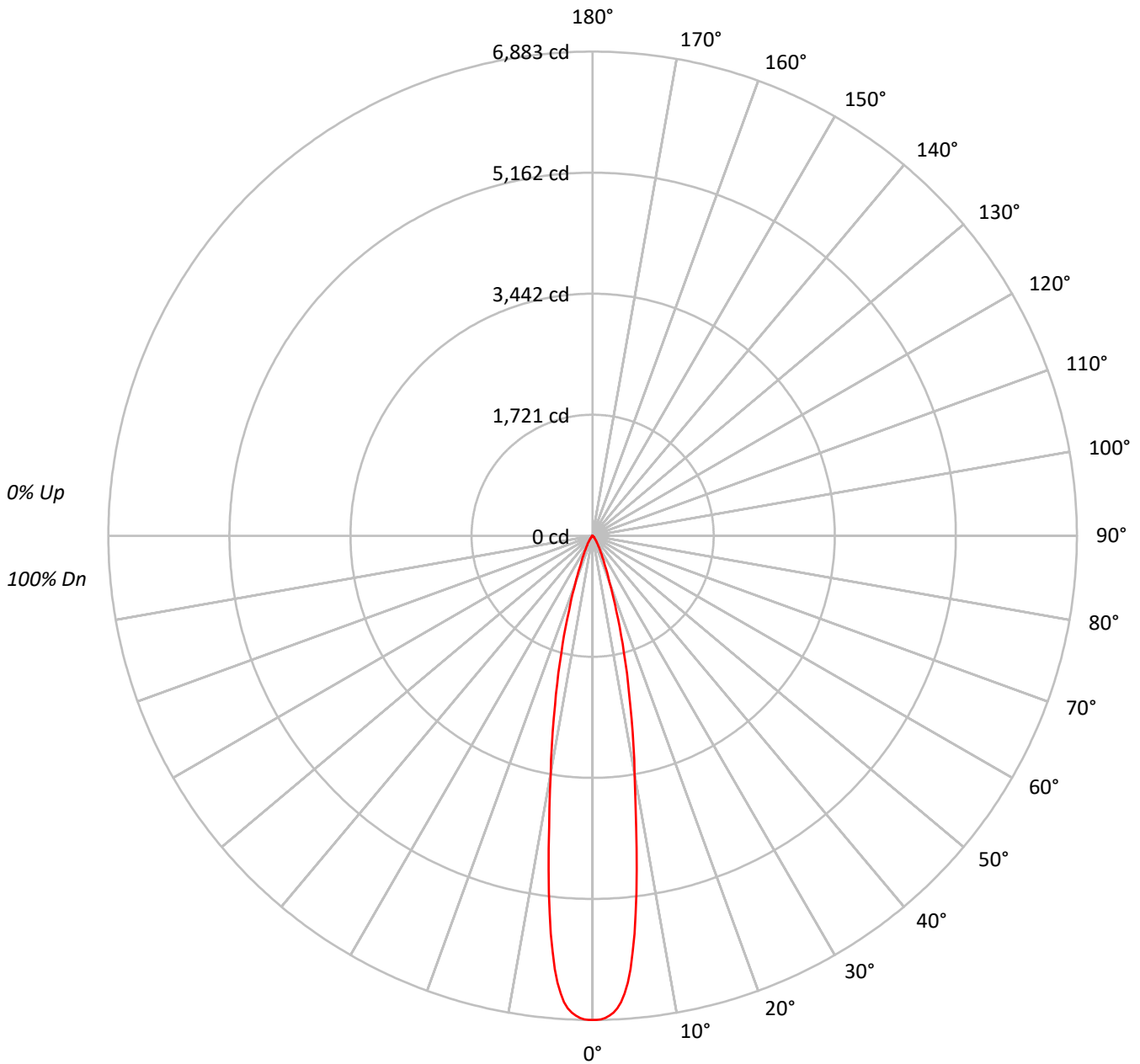
Downlight



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	752075
5°	678513
10°	380812
15°	193574
20°	81961
25°	37830
30°	20035
35°	10791
40°	5777
45°	3415
50°	1972
55°	1048
60°	677
65°	465
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3415 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.1	40.5
10°-20°	482.6	39.9
20°-30°	157.7	13.0
30°-40°	53.7	4.4
40°-50°	18.1	1.5
50°-60°	5.4	0.4
60°-70°	1.8	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°	1130.3	93.5
0°-40°	1184.0	97.9
0°-60°	1207.5	99.8
0°-90°	1209.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1209.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6883	
5°	6186	490
15°	1711	483
25°	314	158
35°	81	54
45°	22	18
55°	6	5
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6883.3
0.5°	6883.3
1°	6874.7
1.5°	6857.5
2°	6826.3
2.5°	6784.6
3°	6725.7
3.5°	6643.6
4°	6521.6
4.5°	6373.3
5°	6186.4
5.5°	5940.6
6°	5688.6
6.5°	5400.0
7°	5117.4
7.5°	4786.4
8°	4491.0
8.5°	4193.7
9°	3919.1
9.5°	3667.2
10°	3432.4
12.5°	2464.6
15°	1711.3
17.5°	1118.0
20°	704.9
22.5°	456.6
25°	313.8
27.5°	220.7
30°	158.8
32.5°	114.0
35°	80.9
37.5°	56.4
40°	40.5
42.5°	29.4
45°	22.1
47.5°	17.2
50°	11.6
52.5°	7.4
55°	5.5
57.5°	4.3
60°	3.1
62.5°	2.5
65°	1.8



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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

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— 0°-180°

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67.5°		1.2
70°		0.6

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(END OF REPORT)