

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: P777629

Luminaire Tested: LERS4D08D010-EC4DR200210IC9024-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777629
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: LERS4D08D010-EC4DR200210IC9024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 727.4 lumens
Efficiency: N/A
Efficacy: 81.7 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): 8.9
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



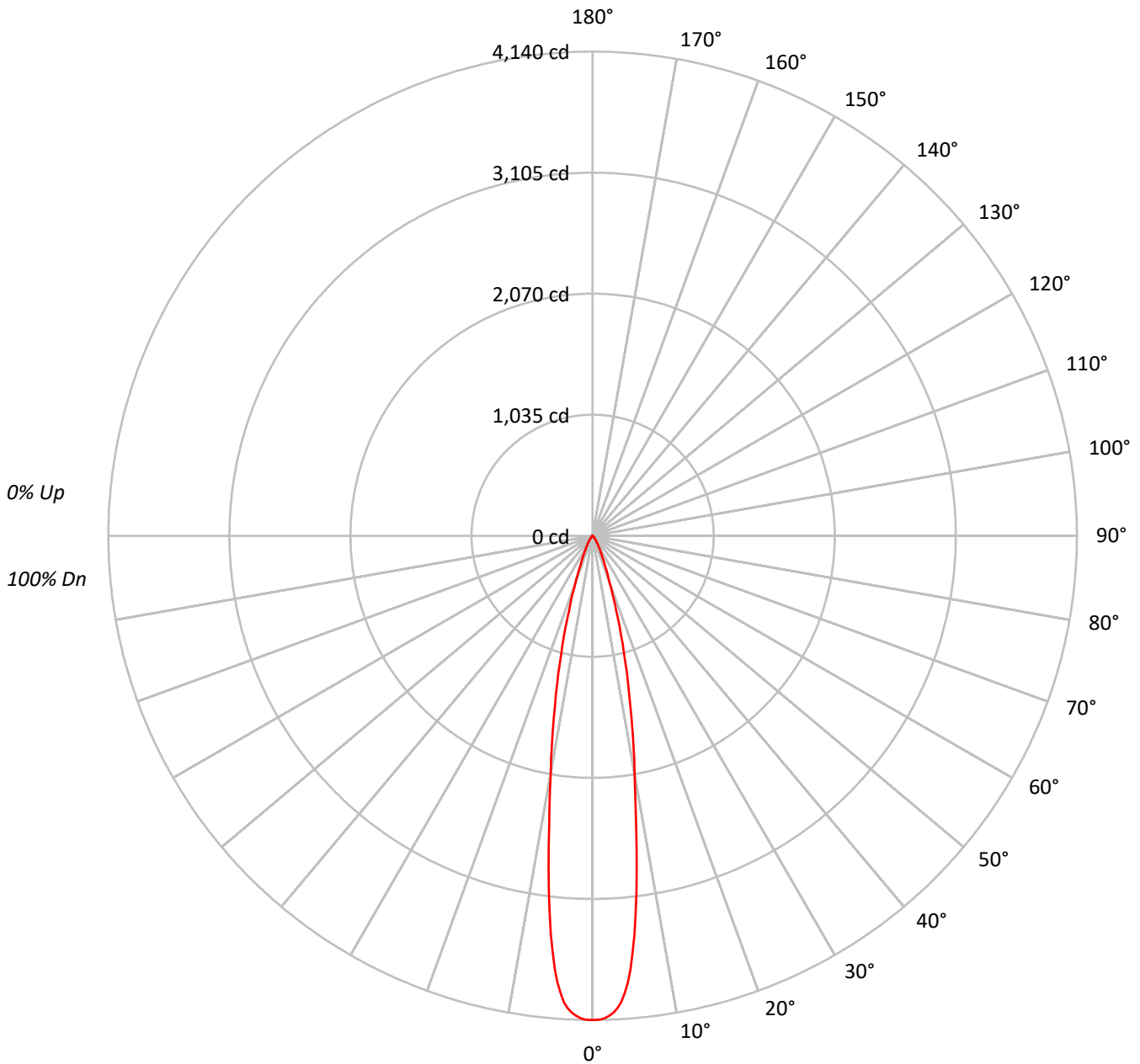
Downlight



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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	96	95	94																
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	93	92	91																
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	90	89	88																
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	86	85	85																
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	84	83	83																
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	82	81	81																
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	80	79	79																
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	78	77	77																
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	76	75	75																
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	74	73	73																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	452394
5°	408145
10°	229071
15°	116441
20°	49300
25°	22761
30°	12049
35°	6496
40°	3466
45°	2055
50°	1190
55°	629
60°	393
65°	284
70°	128
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2055 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.8	40.5
10°-20°	290.3	39.9
20°-30°	94.8	13.0
30°-40°	32.3	4.4
40°-50°	10.9	1.5
50°-60°	3.3	0.4
60°-70°	1.1	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°	679.9	93.5
0°-40°	712.2	97.9
0°-60°	726.3	99.8
0°-90°	727.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	727.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4140	
5°	3721	295
15°	1029	290
25°	189	95
35°	49	32
45°	13	11
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4140.5
0.5°	4140.5
1°	4135.4
1.5°	4125.1
2°	4106.3
2.5°	4081.2
3°	4045.8
3.5°	3996.4
4°	3923.0
4.5°	3833.8
5°	3721.3
5.5°	3573.5
6°	3421.9
6.5°	3248.3
7°	3078.3
7.5°	2879.2
8°	2701.5
8.5°	2522.7
9°	2357.5
9.5°	2206.0
10°	2064.7
12.5°	1482.6
15°	1029.4
17.5°	672.5
20°	424.0
22.5°	274.7
25°	188.8
27.5°	132.7
30°	95.5
32.5°	68.6
35°	48.7
37.5°	33.9
40°	24.3
42.5°	17.7
45°	13.3
47.5°	10.3
50°	7.0
52.5°	4.4
55°	3.3
57.5°	2.6
60°	1.8
62.5°	1.5
65°	1.1



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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

Signify Classified - Internal
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Scaled Data Report





— 0°-180°

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67.5°		0.7
70°		0.4

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(END OF REPORT)