

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: P777631

Luminaire Tested: LERS4D08D010-EC4DR200210IC9024-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777631
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-EC4DR200210IC9024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 691.1 lumens
Efficiency: N/A
Efficacy: 77.7 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 (Ain): 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



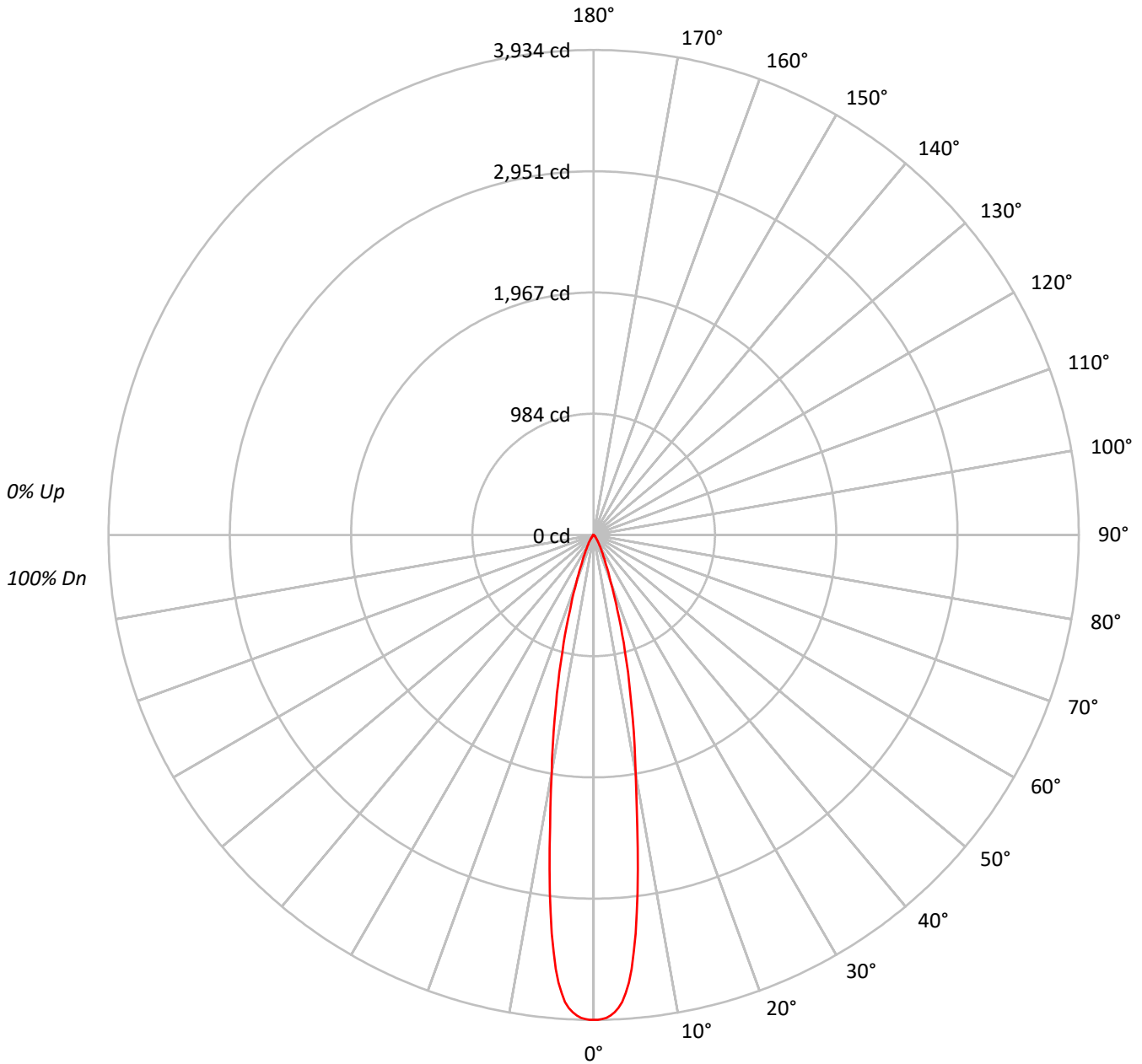
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	429777
5°	387745
10°	217621
15°	110627
20°	46835
25°	21616
30°	11443
35°	6162
40°	3295
45°	1947
50°	1139
55°	610
60°	393
65°	284
70°	128
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1947 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.1	40.5
10°-20°	275.8	39.9
20°-30°	90.1	13.0
30°-40°	30.7	4.4
40°-50°	10.3	1.5
50°-60°	3.1	0.5
60°-70°	1.1	0.2
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°	645.9	93.5
0°-40°	676.6	97.9
0°-60°	690.0	99.8
0°-90°	691.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	691.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3934	
5°	3535	280
15°	978	276
25°	179	90
35°	46	31
45°	13	10
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3933.5
0.5°	3933.5
1°	3928.6
1.5°	3918.8
2°	3900.9
2.5°	3877.1
3°	3843.5
3.5°	3796.6
4°	3726.9
4.5°	3642.1
5°	3535.3
5.5°	3394.8
6°	3250.8
6.5°	3085.9
7°	2924.4
7.5°	2735.2
8°	2566.4
8.5°	2396.5
9°	2239.6
9.5°	2095.7
10°	1961.5
12.5°	1408.4
15°	978.0
17.5°	638.9
20°	402.8
22.5°	261.0
25°	179.3
27.5°	126.1
30°	90.7
32.5°	65.2
35°	46.2
37.5°	32.2
40°	23.1
42.5°	16.8
45°	12.6
47.5°	9.8
50°	6.7
52.5°	4.2
55°	3.2
57.5°	2.5
60°	1.8
62.5°	1.4
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

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— 0°-180°

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67.5°		0.7
70°		0.4

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(END OF REPORT)