

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: P777318

Luminaire Tested: LERS4D05D010-EC4DR200210IC9024-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777318
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: LERS4D05D010-EC4DR200210IC9024-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 649.3 lumens
Efficiency: N/A
Efficacy: 86.6 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): 7.5
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



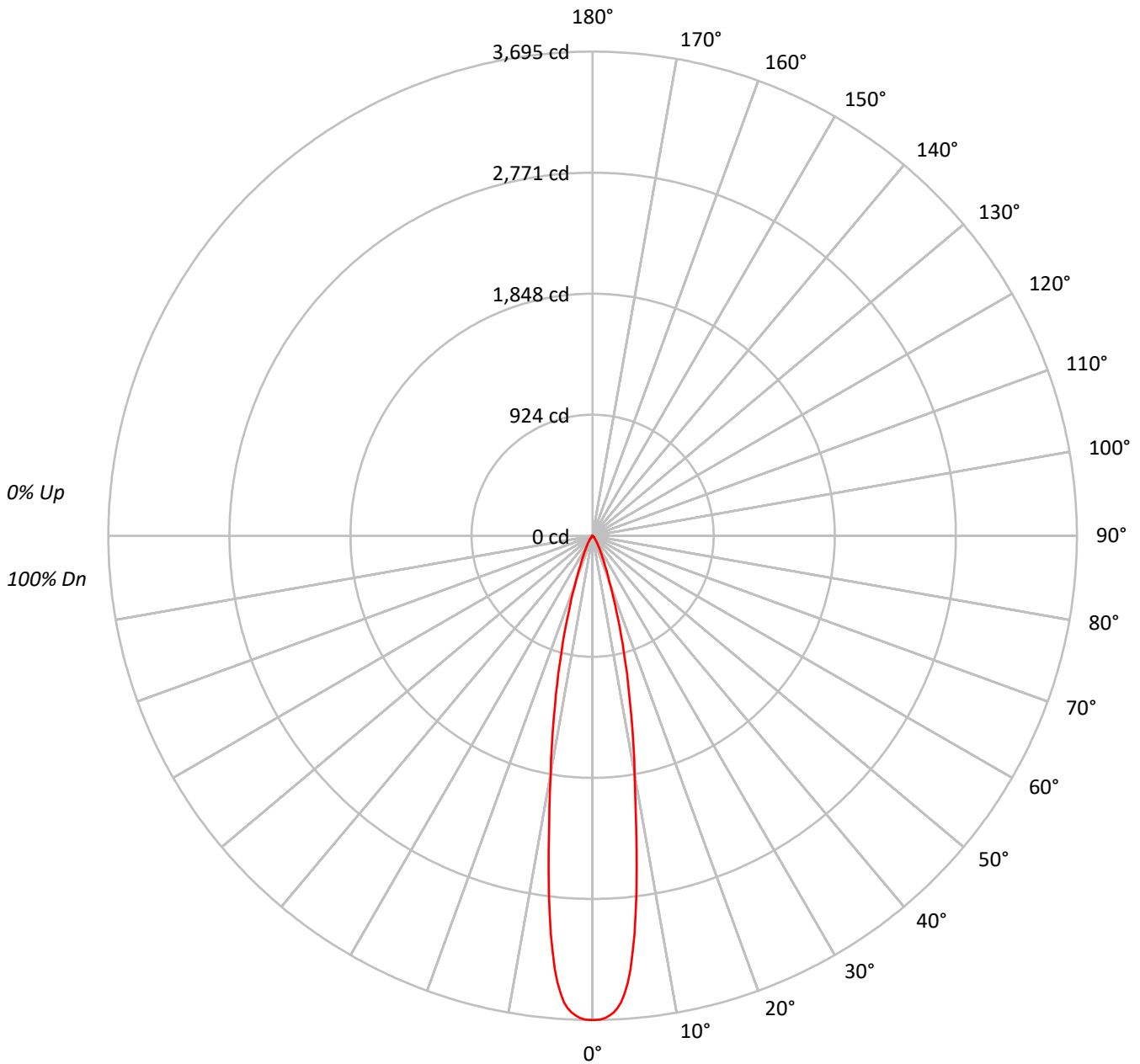
Downlight



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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	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	96	94	93															
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	94	92	91															
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	92	90	89															
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	90	88	87															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	88	86	85															
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	86	84	83															
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	84	82	81															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	403762
5°	364274
10°	204452
15°	103930
20°	43998
25°	20314
30°	10749
35°	5789
40°	3095
45°	1823
50°	1071
55°	571
60°	350
65°	259
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1823 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	40.5
10°-20°	259.1	39.9
20°-30°	84.6	13.0
30°-40°	28.8	4.4
40°-50°	9.7	1.5
50°-60°	2.9	0.4
60°-70°	1.0	0.1
70°-80°	0.0	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°	606.8	93.5
0°-40°	635.6	97.9
0°-60°	648.2	99.8
0°-90°	649.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	649.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3695	
5°	3321	263
15°	919	259
25°	168	85
35°	43	29
45°	12	10
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3695.4
0.5°	3695.4
1°	3690.8
1.5°	3681.6
2°	3664.8
2.5°	3642.5
3°	3610.9
3.5°	3566.8
4°	3501.3
4.5°	3421.7
5°	3321.3
5.5°	3189.3
6°	3054.1
6.5°	2899.1
7°	2747.4
7.5°	2569.7
8°	2411.1
8.5°	2251.5
9°	2104.1
9.5°	1968.8
10°	1842.8
12.5°	1323.2
15°	918.8
17.5°	600.2
20°	378.4
22.5°	245.2
25°	168.5
27.5°	118.5
30°	85.2
32.5°	61.2
35°	43.4
37.5°	30.3
40°	21.7
42.5°	15.8
45°	11.8
47.5°	9.2
50°	6.3
52.5°	3.9
55°	3.0
57.5°	2.3
60°	1.6
62.5°	1.3
65°	1.0



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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°		0.3

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(END OF REPORT)