

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



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: P778303

Luminaire Tested: LERS4D15D010-EC4DR300215IC9024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D15D010-EC4DR300215IC9024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1144.7 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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



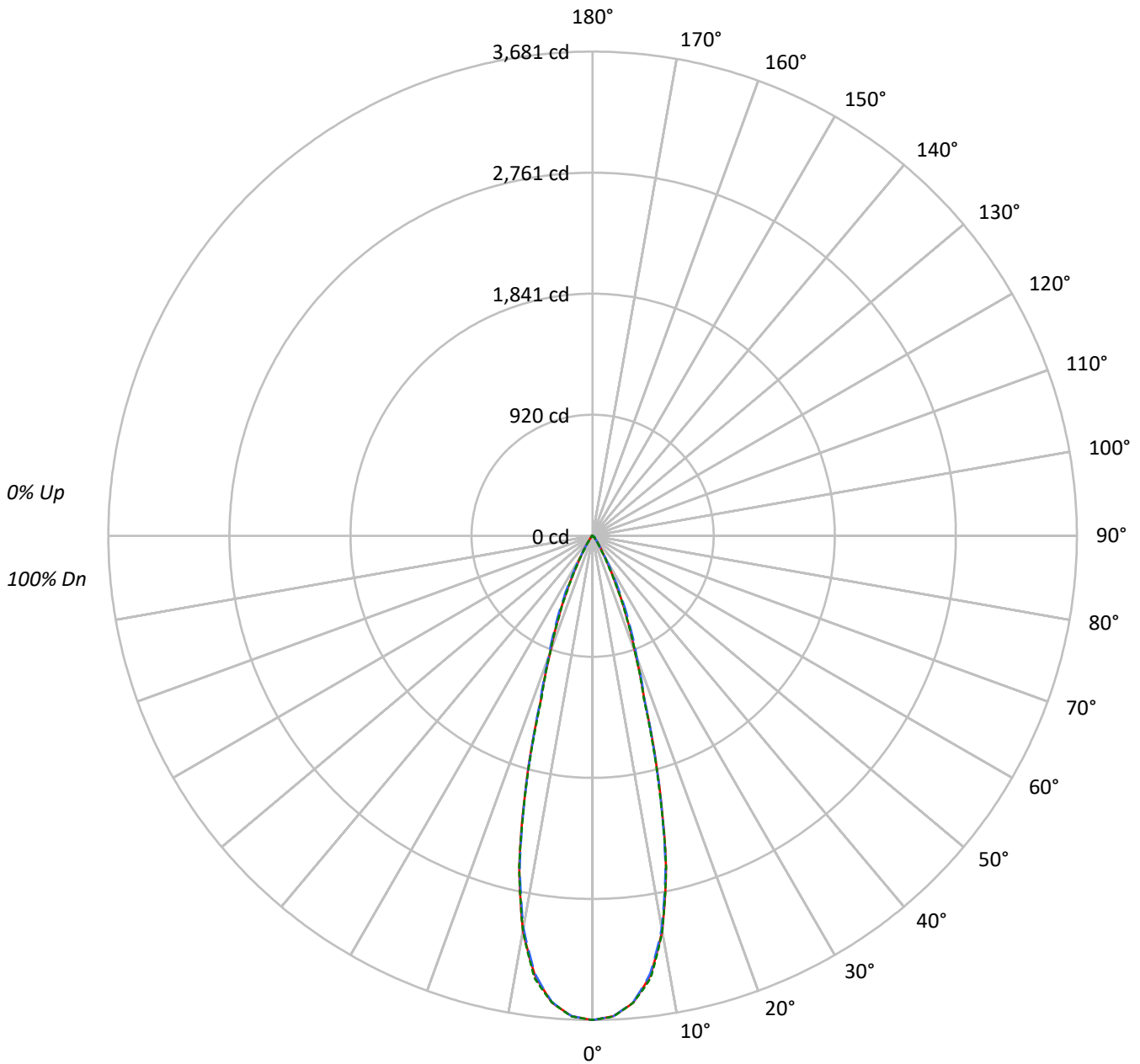
Downlight



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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	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	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	281749	281749	281749
5°	273658	273336	273666
10°	237028	235357	236973
15°	154652	153820	153043
20°	76902	79786	76797
25°	38732	43681	37946
30°	15512	16899	13514
35°	7195	6887	5775
40°	3108	3447	2928
45°	2187	2717	2208
50°	750	1977	798
55°	440	814	454
60°	306	352	306
65°	199	199	199
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2717 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.7	28.3
10°-20°	521.3	45.5
20°-30°	225.3	19.7
30°-40°	51.3	4.5
40°-50°	17.6	1.5
50°-60°	4.3	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°	1070.2	93.5
0°-40°	1121.6	98.0
0°-60°	1143.5	99.9
0°-90°	1144.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1144.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3681	3681	3681	3681	3681	
5°	3562	3558	3557	3565	3562	324
15°	1952	1928	1941	1935	1931	523
25°	459	476	517	464	449	220
35°	77	79	74	73	62	52
45°	20	25	25	25	20	14
55°	3	3	6	4	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3680.9	3680.9	3680.9	3680.9	3680.9
2.5°	3656.5	3653.9	3655.4	3657.2	3657.9
5°	3561.6	3558.1	3557.4	3564.8	3561.7
7.5°	3370.2	3365.3	3357.9	3374.7	3390.4
10°	3049.6	3044.2	3028.1	3036.1	3048.9
12.5°	2576.3	2558.8	2558.4	2583.7	2580.3
15°	1951.6	1928.1	1941.1	1934.7	1931.3
17.5°	1312.3	1303.3	1320.7	1315.4	1292.9
20°	944.1	946.4	979.5	962.8	942.8
22.5°	688.9	697.4	736.6	693.8	678.0
25°	458.6	476.0	517.2	463.9	449.3
27.5°	282.1	290.0	331.8	278.5	270.5
30°	175.5	171.5	191.2	164.1	152.9
32.5°	115.1	110.1	116.4	104.4	95.4
35°	77.0	78.6	73.7	73.2	61.8
37.5°	48.1	55.3	48.8	52.0	39.8
40°	31.1	40.1	34.5	38.2	29.3
42.5°	25.5	30.9	28.4	30.2	26.0
45°	20.2	25.1	25.1	25.1	20.4
47.5°	11.2	16.8	21.5	17.2	11.9
50°	6.3	8.5	16.6	8.9	6.7
52.5°	4.4	4.9	11.4	5.0	4.5
55°	3.3	3.4	6.1	3.6	3.4
57.5°	2.5	2.7	3.3	2.7	2.5
60°	2.0	2.0	2.3	2.2	2.0
62.5°	1.4	1.4	1.6	1.4	1.4
65°	1.1	1.1	1.1	1.1	1.1
67.5°	0.5	0.7	0.7	0.7	0.7
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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— 0°-180° - - 45°-225° - - - 90°-270°

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