

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: P778300

Luminaire Tested: LERS4D15D010-EC4DR300215IC9024-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778300
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-EC4DR300215IC9024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1129.1 lumens
Efficiency: N/A
Efficacy: 71.5 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 (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



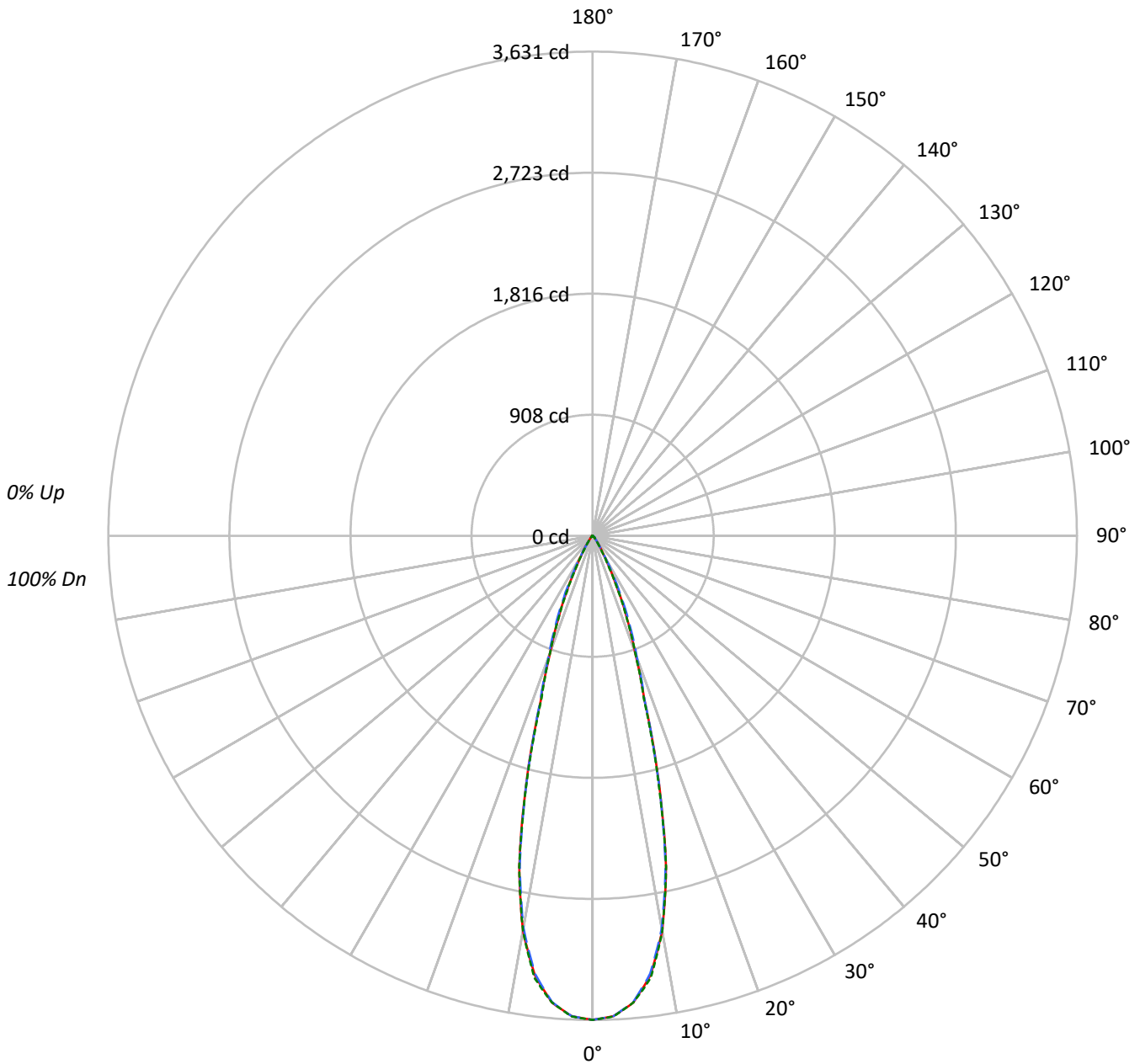
Downlight



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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	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	86	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°	277898	277898	277898
5°	269924	269609	269939
10°	233794	232147	233732
15°	152536	151720	150951
20°	75852	78694	75754
25°	38208	43090	37423
30°	15299	16669	13328
35°	7092	6793	5700
40°	3068	3397	2888
45°	2154	2685	2187
50°	738	1953	786
55°	427	814	454
60°	291	352	291
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: 2685 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.3	28.3
10°-20°	514.2	45.5
20°-30°	222.2	19.7
30°-40°	50.6	4.5
40°-50°	17.4	1.5
50°-60°	4.2	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°	1055.6	93.5
0°-40°	1106.2	98.0
0°-60°	1127.9	99.9
0°-90°	1129.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1129.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3631	3631	3631	3631	3631	
5°	3513	3510	3509	3516	3513	320
15°	1925	1902	1915	1908	1905	515
25°	452	470	510	458	443	217
35°	76	78	73	72	61	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°	3630.6	3630.6	3630.6	3630.6	3630.6
2.5°	3606.6	3604.0	3605.5	3607.2	3608.0
5°	3513.0	3509.6	3508.9	3516.2	3513.2
7.5°	3324.2	3319.4	3312.1	3328.7	3344.1
10°	3008.0	3002.7	2986.8	2994.6	3007.2
12.5°	2541.2	2523.8	2523.5	2548.4	2545.0
15°	1924.9	1901.7	1914.6	1908.3	1904.9
17.5°	1294.5	1285.5	1302.7	1297.5	1275.2
20°	931.2	933.5	966.1	949.7	930.0
22.5°	679.5	687.9	726.6	684.3	668.8
25°	452.4	469.5	510.2	457.6	443.1
27.5°	278.2	286.1	327.3	274.7	266.8
30°	173.1	169.1	188.6	161.9	150.8
32.5°	113.6	108.6	114.8	103.0	94.1
35°	75.9	77.5	72.7	72.2	61.0
37.5°	47.4	54.5	48.1	51.3	39.2
40°	30.7	39.6	34.0	37.6	28.9
42.5°	25.2	30.5	28.0	29.8	25.7
45°	19.9	24.8	24.8	24.8	20.2
47.5°	11.1	16.6	21.2	17.0	11.7
50°	6.2	8.4	16.4	8.7	6.6
52.5°	4.3	4.8	11.2	5.0	4.5
55°	3.2	3.4	6.1	3.6	3.4
57.5°	2.5	2.7	3.2	2.7	2.5
60°	1.9	1.9	2.3	2.1	1.9
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

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

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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