

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: P778232

Luminaire Tested: LERS4D15D010-EC4DR1515309027-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D15D010-EC4DR1515309027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1297.6 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
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

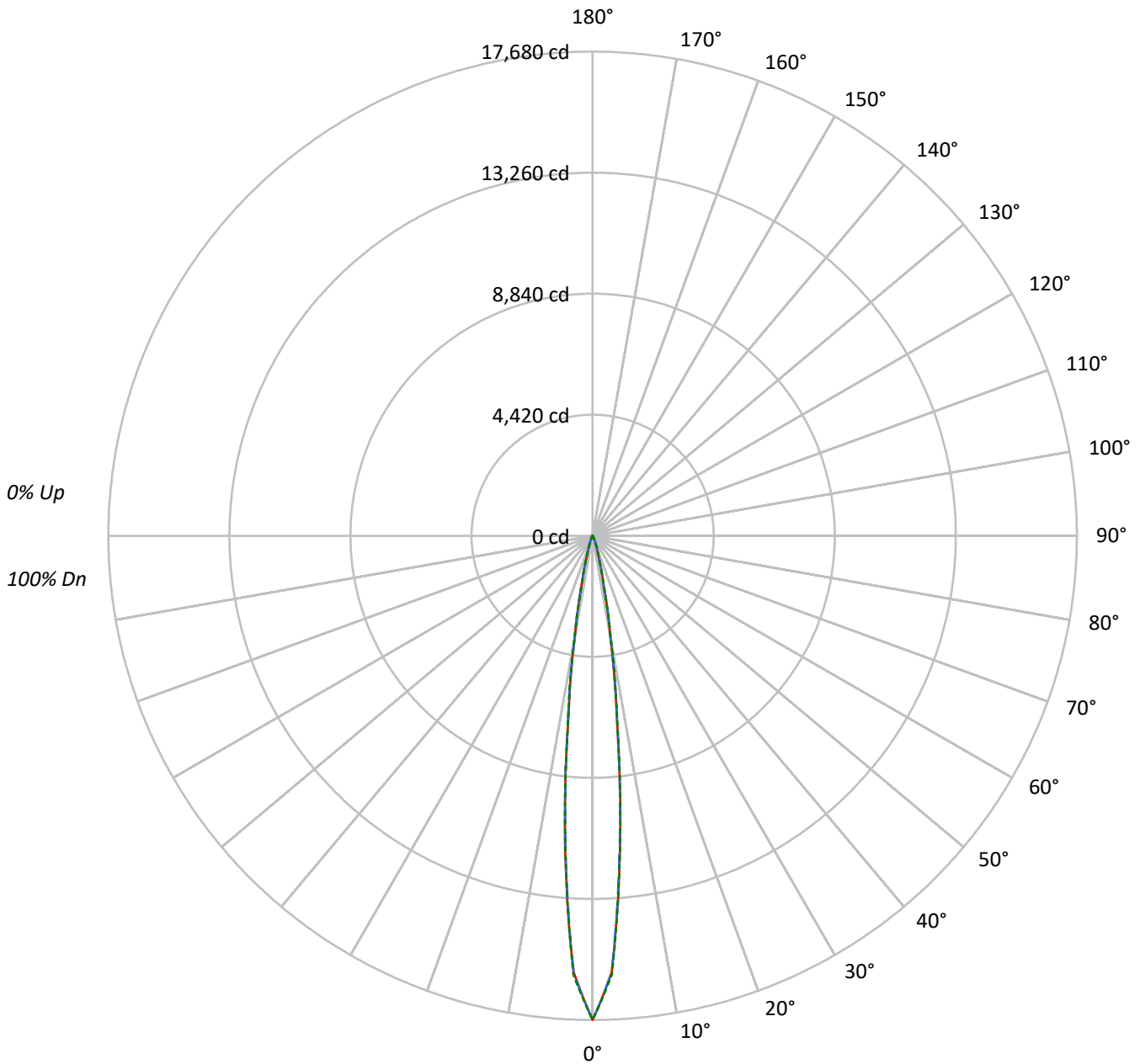


Downlight



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	99	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1989341	1989341	1989341
5°	1169037	1153895	1163021
10°	348905	351350	356724
15°	86787	88472	85745
20°	25962	30070	26519
25°	9153	11662	9270
30°	3362	4425	3422
35°	1685	1903	1634
40°	1065	1172	1065
45°	784	840	784
50°	626	626	626
55°	522	522	522
60°	421	421	421
65°	321	321	321
70°	271	271	271
75°	166	166	227
80°	118	118	118
85°	58	58	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 840 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.6	64.9
10°-20°	346.2	26.7
20°-30°	68.8	5.3
30°-40°	17.2	1.3
40°-50°	9.0	0.7
50°-60°	6.7	0.5
60°-70°	4.7	0.4
70°-80°	2.7	0.2
80°-90°	0.8	0.1
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°	1256.5	96.8
0°-40°	1273.7	98.2
0°-60°	1289.4	99.4
0°-90°	1297.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1297.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17680	17680	17680	17680	17680	
5°	11503	11385	11354	11433	11444	840
15°	999	1018	1019	1001	987	343
25°	118	133	150	132	119	62
35°	23	25	26	25	22	16
45°	11	11	12	11	11	9
55°	8	8	8	8	8	7
65°	4	4	4	4	4	5
75°	2	2	2	2	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17679.9	17679.9	17679.9	17679.9	17679.9
2.5°	15948.0	15961.5	15966.7	15982.4	16040.8
5°	11503.0	11384.7	11354.0	11432.6	11443.8
7.5°	6813.9	6837.9	6925.4	6944.9	6874.5
10°	3739.3	3770.0	3765.5	3792.4	3823.1
12.5°	1912.3	1888.3	1880.9	1911.5	1868.9
15°	999.2	1017.9	1018.6	1000.7	987.2
17.5°	537.4	559.1	595.0	565.8	520.9
20°	317.3	336.8	367.5	343.5	324.1
22.5°	196.1	211.8	233.5	214.8	199.1
25°	117.5	133.2	149.7	132.5	119.0
27.5°	69.6	83.1	93.6	82.3	68.9
30°	44.9	52.4	59.1	51.6	45.7
32.5°	31.4	34.4	37.4	34.4	31.4
35°	23.2	24.7	26.2	24.7	22.5
37.5°	18.0	19.5	20.2	18.7	17.2
40°	15.0	15.7	16.5	15.7	15.0
42.5°	12.7	13.5	13.5	13.5	12.7
45°	11.2	11.2	12.0	11.2	11.2
47.5°	9.7	9.7	10.5	9.7	9.7
50°	9.0	9.0	9.0	9.0	9.0
52.5°	8.2	8.2	8.2	8.2	8.2
55°	7.5	7.5	7.5	7.5	7.5
57.5°	6.7	6.7	6.7	6.7	6.7
60°	6.0	6.0	6.0	6.0	6.0
62.5°	5.2	5.2	5.2	5.2	5.2
65°	4.5	4.5	4.5	4.5	4.5
67.5°	4.5	4.5	4.5	4.5	4.5
70°	3.7	3.7	3.7	3.7	3.7
72.5°	3.0	3.0	3.0	3.0	3.0
75°	2.2	2.2	2.2	2.2	3.0
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	0.7	0.7	0.7	0.7	0.7
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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Scaled Data Report





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

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(END OF REPORT)