

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: P777292

Luminaire Tested: LERS4D05D010-EC4DR150210IC9024-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777292
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: LERS4D05D010-EC4DR150210IC9024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 553.1 lumens
Efficiency: N/A
Efficacy: 73.7 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): 7.5
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



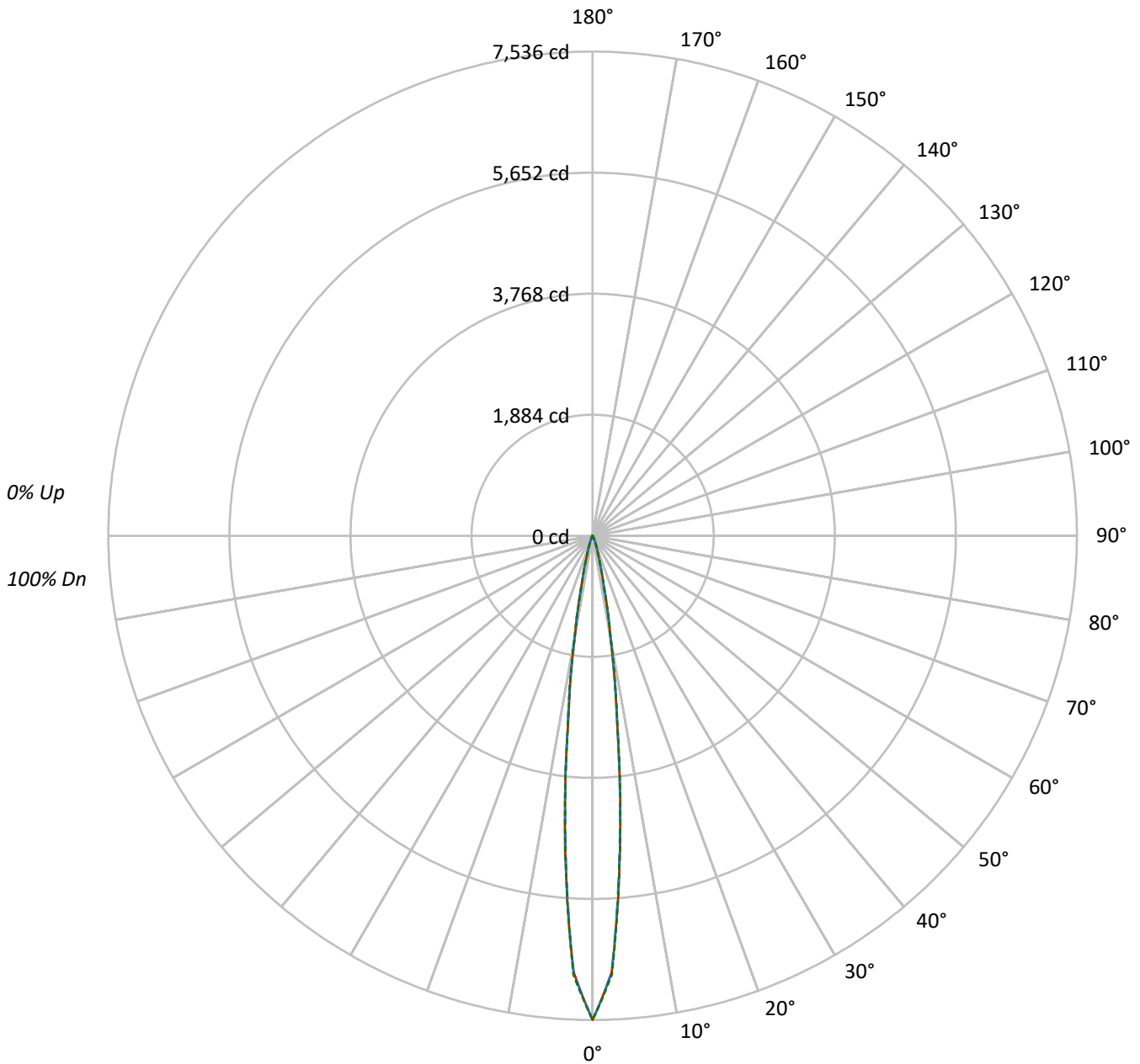
Downlight



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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	98	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°	847962	847962	847962
5°	498297	491843	495736
10°	148723	149759	152054
15°	36992	37713	36549
20°	11071	12813	11300
25°	3903	4970	3950
30°	1430	1887	1460
35°	719	813	697
40°	454	497	454
45°	336	357	336
50°	264	264	264
55°	223	223	223
60°	183	183	183
65°	136	136	136
70°	117	117	117
75°	76	76	98
80°	47	47	47
85°	25	25	25

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 357 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.7	64.9
10°-20°	147.6	26.7
20°-30°	29.3	5.3
30°-40°	7.3	1.3
40°-50°	3.8	0.7
50°-60°	2.9	0.5
60°-70°	2.0	0.4
70°-80°	1.2	0.2
80°-90°	0.3	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°	535.6	96.8
0°-40°	542.9	98.2
0°-60°	549.6	99.4
0°-90°	553.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	553.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7536	7536	7536	7536	7536	
5°	4903	4853	4840	4873	4878	358
15°	426	434	434	426	421	146
25°	50	57	64	56	51	26
35°	10	10	11	10	10	7
45°	5	5	5	5	5	4
55°	3	3	3	3	3	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7536.1	7536.1	7536.1	7536.1	7536.1
2.5°	6797.8	6803.6	6805.8	6812.5	6837.4
5°	4903.1	4852.7	4839.6	4873.1	4877.9
7.5°	2904.4	2914.6	2952.0	2960.3	2930.3
10°	1593.9	1606.9	1605.0	1616.5	1629.6
12.5°	815.1	804.9	801.7	814.8	796.6
15°	425.9	433.9	434.2	426.5	420.8
17.5°	229.1	238.3	253.6	241.2	222.0
20°	135.3	143.6	156.6	146.4	138.1
22.5°	83.6	90.3	99.5	91.6	84.9
25°	50.1	56.8	63.8	56.5	50.7
27.5°	29.7	35.4	39.9	35.1	29.4
30°	19.1	22.3	25.2	22.0	19.5
32.5°	13.4	14.7	16.0	14.7	13.4
35°	9.9	10.5	11.2	10.5	9.6
37.5°	7.7	8.3	8.6	8.0	7.3
40°	6.4	6.7	7.0	6.7	6.4
42.5°	5.4	5.7	5.7	5.7	5.4
45°	4.8	4.8	5.1	4.8	4.8
47.5°	4.1	4.1	4.5	4.1	4.1
50°	3.8	3.8	3.8	3.8	3.8
52.5°	3.5	3.5	3.5	3.5	3.5
55°	3.2	3.2	3.2	3.2	3.2
57.5°	2.9	2.9	2.9	2.9	2.9
60°	2.6	2.6	2.6	2.6	2.6
62.5°	2.2	2.2	2.2	2.2	2.2
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.9	1.9	1.9	1.9	1.9
70°	1.6	1.6	1.6	1.6	1.6
72.5°	1.3	1.3	1.3	1.3	1.3
75°	1.0	1.0	1.0	1.0	1.3
77.5°	1.0	1.0	1.0	1.0	1.0
80°	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.3	0.3	0.3	0.3	0.3
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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