

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: P741892

Luminaire Tested: LD4D10D010-EU4DR150210IC9030-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741892
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: LD4D10D010-EU4DR150210IC9030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 943.2 lumens
Efficiency: N/A
Efficacy: 80.6 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): 11.7
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



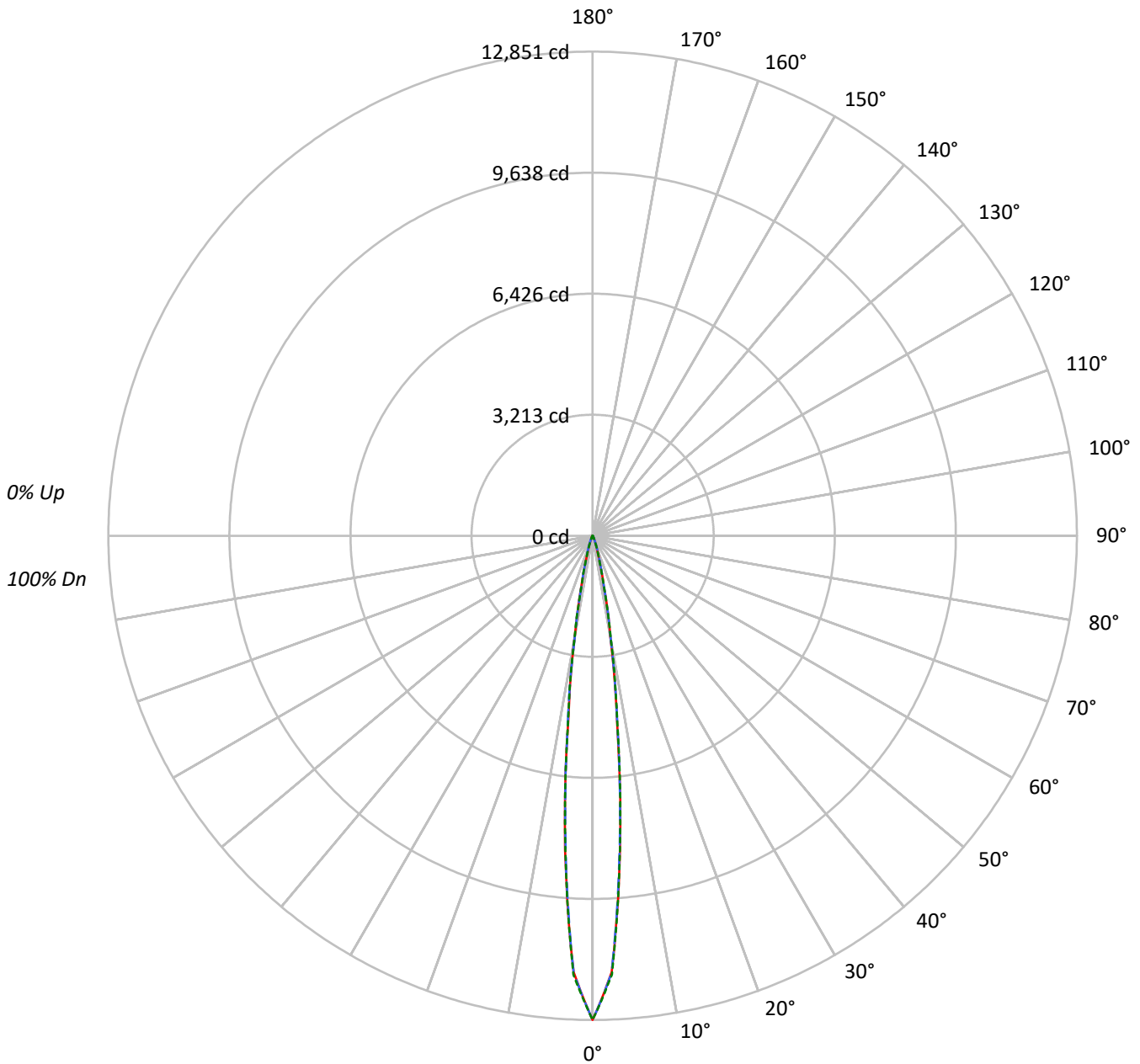
Downlight



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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																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1446005	1446005	1446005
5°	849740	838733	845370
10°	253610	255383	259292
15°	63084	64309	62328
20°	18877	21855	19277
25°	6653	8476	6738
30°	2441	3220	2486
35°	1227	1380	1184
40°	774	852	774
45°	574	609	574
50°	452	452	452
55°	376	376	376
60°	309	309	309
65°	236	236	236
70°	197	197	197
75°	121	121	166
80°	87	87	87
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 609 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.7	64.9
10°-20°	251.6	26.7
20°-30°	50.0	5.3
30°-40°	12.5	1.3
40°-50°	6.6	0.7
50°-60°	4.9	0.5
60°-70°	3.5	0.4
70°-80°	1.9	0.2
80°-90°	0.6	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°	913.3	96.8
0°-40°	925.8	98.2
0°-60°	937.2	99.4
0°-90°	943.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	943.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12851	12851	12851	12851	12851	
5°	8361	8275	8253	8310	8318	611
15°	726	740	740	727	718	249
25°	85	97	109	96	86	45
35°	17	18	19	18	16	11
45°	8	8	9	8	8	6
55°	5	5	5	5	5	5
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12851.1	12851.1	12851.1	12851.1	12851.1
2.5°	11592.2	11602.0	11605.8	11617.2	11659.6
5°	8361.2	8275.2	8252.9	8310.1	8318.2
7.5°	4952.8	4970.3	5033.9	5048.1	4996.9
10°	2718.0	2740.3	2737.0	2756.6	2778.9
12.5°	1390.0	1372.6	1367.1	1389.5	1358.4
15°	726.3	739.9	740.4	727.4	717.6
17.5°	390.6	406.4	432.5	411.3	378.6
20°	230.7	244.8	267.1	249.7	235.6
22.5°	142.5	154.0	169.7	156.1	144.7
25°	85.4	96.8	108.8	96.3	86.5
27.5°	50.6	60.4	68.0	59.8	50.1
30°	32.6	38.1	43.0	37.5	33.2
32.5°	22.8	25.0	27.2	25.0	22.8
35°	16.9	18.0	19.0	18.0	16.3
37.5°	13.1	14.1	14.7	13.6	12.5
40°	10.9	11.4	12.0	11.4	10.9
42.5°	9.2	9.8	9.8	9.8	9.2
45°	8.2	8.2	8.7	8.2	8.2
47.5°	7.1	7.1	7.6	7.1	7.1
50°	6.5	6.5	6.5	6.5	6.5
52.5°	6.0	6.0	6.0	6.0	6.0
55°	5.4	5.4	5.4	5.4	5.4
57.5°	4.9	4.9	4.9	4.9	4.9
60°	4.4	4.4	4.4	4.4	4.4
62.5°	3.8	3.8	3.8	3.8	3.8
65°	3.3	3.3	3.3	3.3	3.3
67.5°	3.3	3.3	3.3	3.3	3.3
70°	2.7	2.7	2.7	2.7	2.7
72.5°	2.2	2.2	2.2	2.2	2.2
75°	1.6	1.6	1.6	1.6	2.2
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5
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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