

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: P743870

Luminaire Tested: LD4D20D010-EU4DR1515309024-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743870
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: LD4D20D010-EU4DR1515309024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF 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: 1404.3 lumens
Efficiency: N/A
Efficacy: 60.8 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): 23.1
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



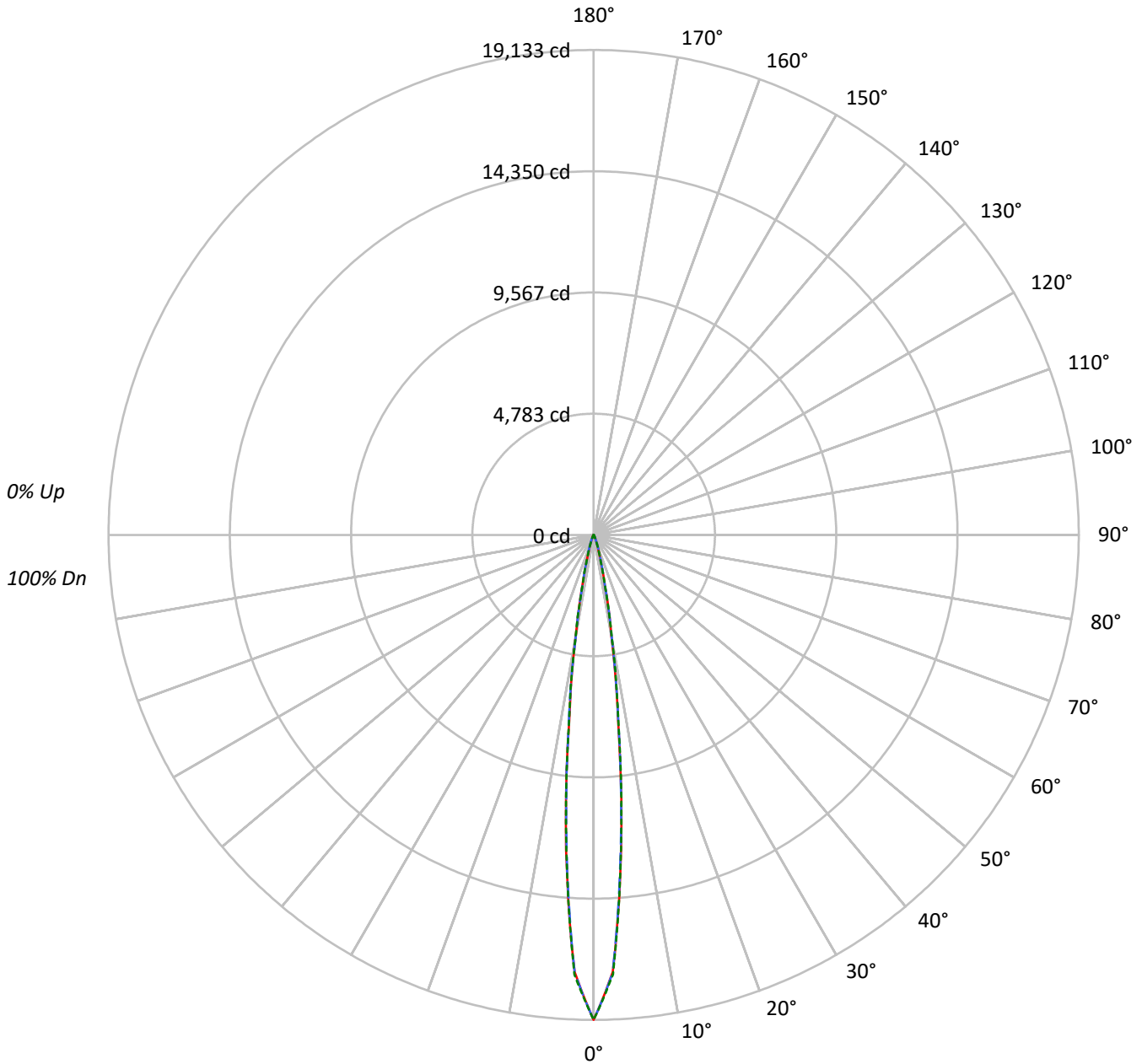
Downlight



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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°	2152878	2152878	2152878
5°	1265127	1248745	1258623
10°	377578	380228	386051
15°	93918	95751	92798
20°	28098	32541	28695
25°	9909	12620	10034
30°	3639	4792	3699
35°	1823	2055	1765
40°	1150	1264	1150
45°	847	910	847
50°	675	675	675
55°	564	564	564
60°	456	456	456
65°	350	350	350
70°	293	293	293
75°	181	181	242
80°	126	126	126
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 910 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	910.8	64.9
10°-20°	374.6	26.7
20°-30°	74.4	5.3
30°-40°	18.6	1.3
40°-50°	9.8	0.7
50°-60°	7.2	0.5
60°-70°	5.1	0.4
70°-80°	2.9	0.2
80°-90°	0.9	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°	1359.8	96.8
0°-40°	1378.4	98.2
0°-60°	1395.4	99.4
0°-90°	1404.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1404.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19133	19133	19133	19133	19133	
5°	12448	12320	12287	12372	12384	909
15°	1081	1102	1102	1083	1068	371
25°	127	144	162	143	129	67
35°	25	27	28	27	24	17
45°	12	12	13	12	12	9
55°	8	8	8	8	8	7
65°	5	5	5	5	5	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°	19133.3	19133.3	19133.3	19133.3	19133.3
2.5°	17259.0	17273.6	17279.2	17296.2	17359.4
5°	12448.5	12320.5	12287.3	12372.4	12384.5
7.5°	7374.0	7399.9	7494.7	7515.8	7439.6
10°	4046.6	4079.9	4075.0	4104.1	4137.4
12.5°	2069.5	2043.6	2035.5	2068.7	2022.5
15°	1081.3	1101.6	1102.4	1082.9	1068.4
17.5°	581.6	605.1	643.9	612.3	563.7
20°	343.4	364.5	397.7	371.8	350.7
22.5°	212.2	229.2	252.7	232.5	215.5
25°	127.2	144.2	162.0	143.4	128.8
27.5°	75.3	89.9	101.2	89.1	74.5
30°	48.6	56.7	64.0	55.9	49.4
32.5°	34.0	37.3	40.5	37.3	34.0
35°	25.1	26.7	28.3	26.7	24.3
37.5°	19.4	21.1	21.9	20.2	18.6
40°	16.2	17.0	17.8	17.0	16.2
42.5°	13.8	14.6	14.6	14.6	13.8
45°	12.1	12.1	13.0	12.1	12.1
47.5°	10.5	10.5	11.3	10.5	10.5
50°	9.7	9.7	9.7	9.7	9.7
52.5°	8.9	8.9	8.9	8.9	8.9
55°	8.1	8.1	8.1	8.1	8.1
57.5°	7.3	7.3	7.3	7.3	7.3
60°	6.5	6.5	6.5	6.5	6.5
62.5°	5.7	5.7	5.7	5.7	5.7
65°	4.9	4.9	4.9	4.9	4.9
67.5°	4.9	4.9	4.9	4.9	4.9
70°	4.0	4.0	4.0	4.0	4.0
72.5°	3.2	3.2	3.2	3.2	3.2
75°	2.4	2.4	2.4	2.4	3.2
77.5°	2.4	2.4	2.4	2.4	2.4
80°	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8
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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