

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: P744677

Luminaire Tested: LD4D20D010-EU4DR6520359030-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P744677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR6520359030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1453.6 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



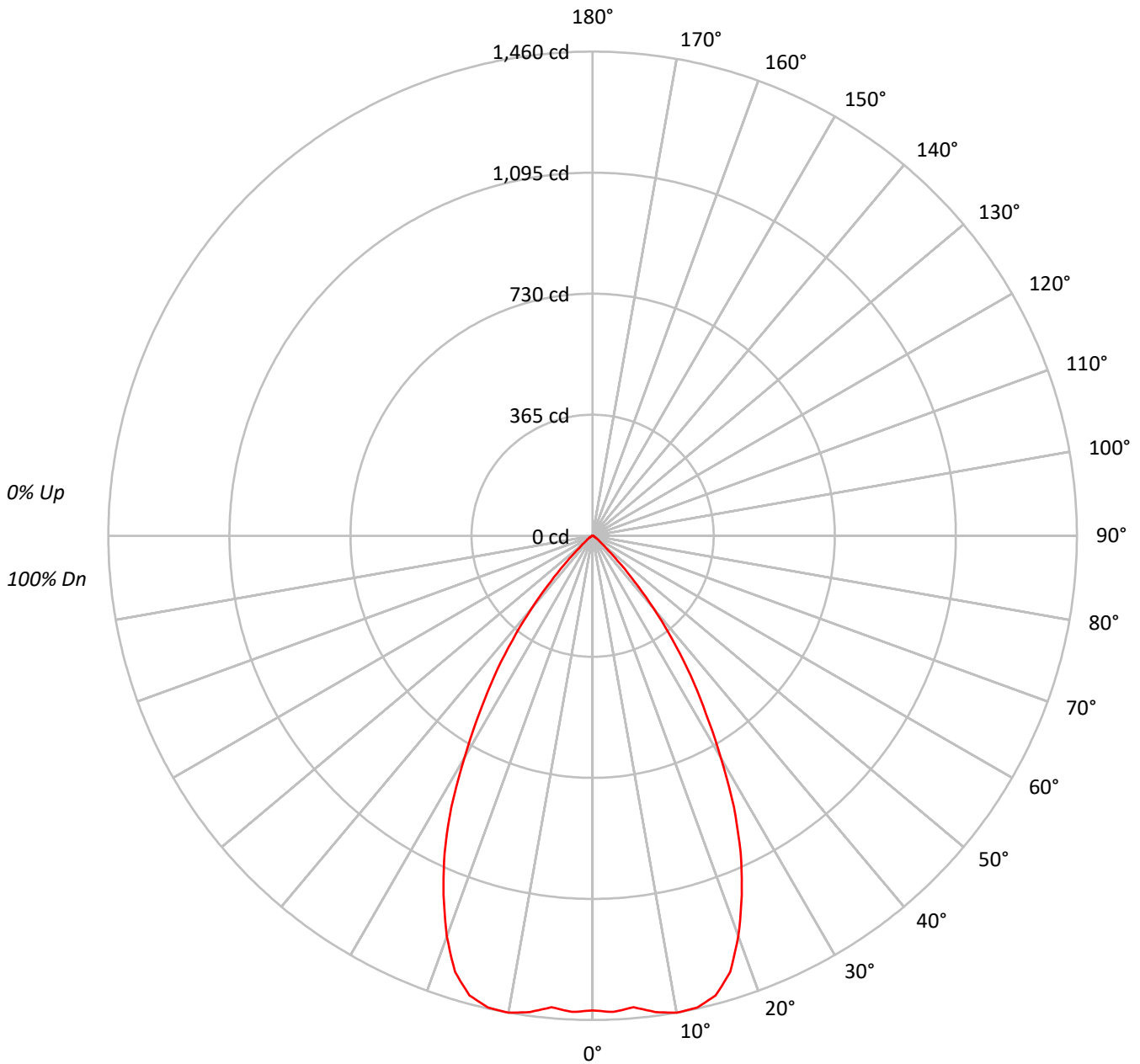
Downlight



TEST NUMBER: P744677

CATALOG NUMBER: LD4D20D010-EU4DR6520359030-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P744677

CATALOG NUMBER: LD4D20D010-EU4DR6520359030-4LBSQW1MW

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53																			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	156374
5°	156500
10°	162015
15°	162275
20°	149411
25°	127295
30°	97461
35°	68852
40°	40635
45°	16503
50°	5983
55°	3334
60°	1923
65°	1060
70°	1086
75°	844
80°	881
85°	752

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16503 cd/sqm



TEST NUMBER: P744677

CATALOG NUMBER: LD4D20D010-EU4DR6520359030-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	9.5
10°-20°	397.5	27.3
20°-30°	476.9	32.8
30°-40°	320.5	22.1
40°-50°	96.0	6.6
50°-60°	16.9	1.2
60°-70°	4.8	0.3
70°-80°	2.3	0.2
80°-90°	0.7	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°	1012.3	69.6
0°-40°	1332.8	91.7
0°-60°	1445.7	99.5
0°-90°	1453.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1453.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1431	
5°	1427	138
15°	1435	398
25°	1056	477
35°	516	321
45°	107	96
55°	18	17
65°	4	5
75°	2	2
85°	1	1
90°	0	



TEST NUMBER: P744677

CATALOG NUMBER: LD4D20D010-EU4DR6520359030-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	1431.2
2.5°	1437.2
5°	1426.9
7.5°	1448.5
10°	1460.3
12.5°	1457.4
15°	1434.6
17.5°	1378.9
20°	1285.0
22.5°	1174.3
25°	1055.9
27.5°	922.3
30°	772.5
32.5°	636.5
35°	516.2
37.5°	397.2
40°	284.9
42.5°	186.1
45°	106.8
47.5°	56.6
50°	35.2
52.5°	24.4
55°	17.5
57.5°	12.6
60°	8.8
62.5°	5.7
65°	4.1
67.5°	3.7
70°	3.4
72.5°	2.6
75°	2.0
77.5°	1.8
80°	1.4
82.5°	1.0
85°	0.6
87.5°	0.4
90°	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)