

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: P744794

Luminaire Tested: LD4D20D010-EU4DR7020359050-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P744794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR7020359050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1641.6 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
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



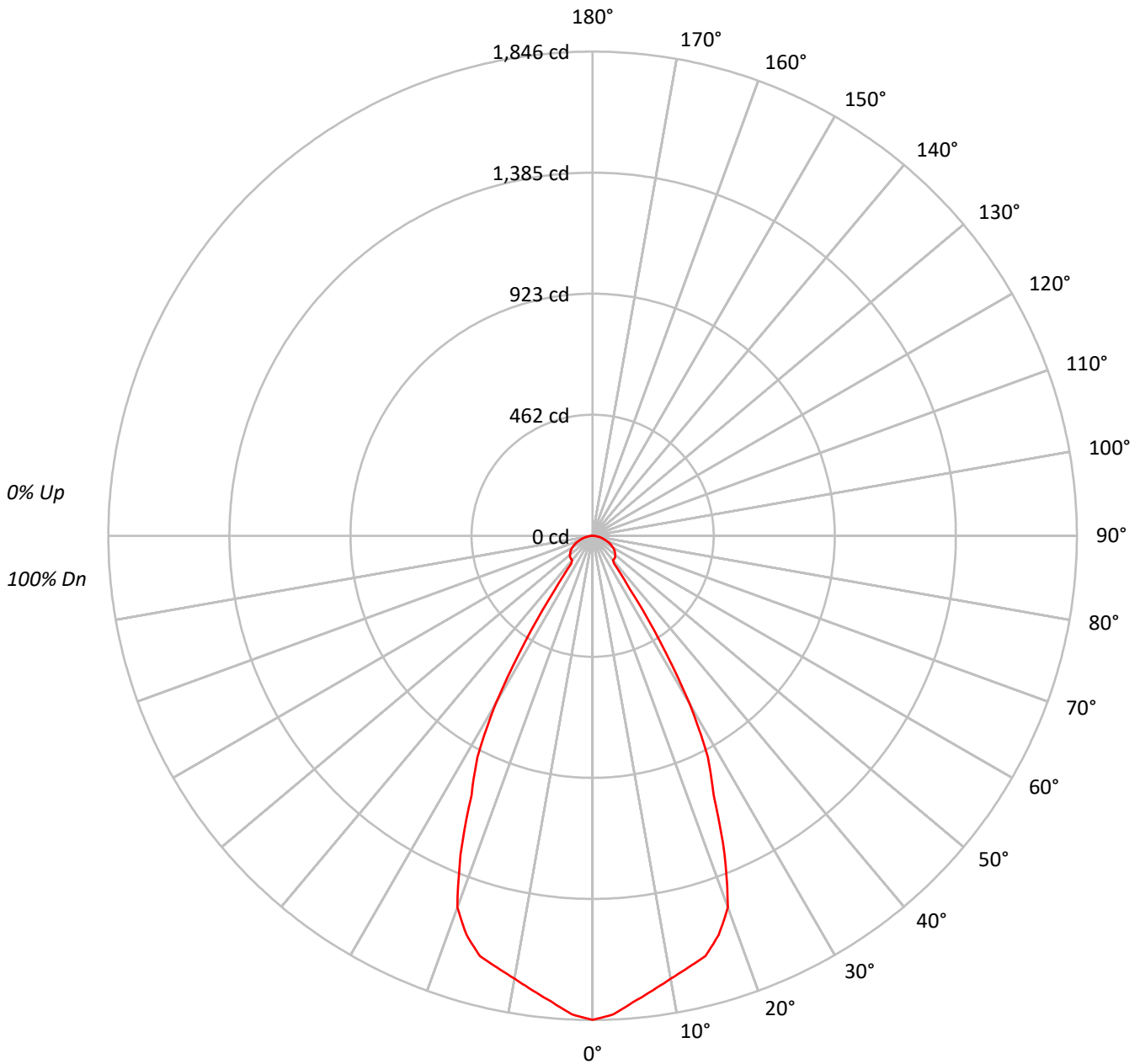
Downlight



TEST NUMBER: P744794

CATALOG NUMBER: LD4D20D010-EU4DR7020359050-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P744794

CATALOG NUMBER: LD4D20D010-EU4DR7020359050-4LBSQW1MW

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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	201652
5°	195666
10°	190206
15°	187714
20°	175281
25°	131683
30°	93083
35°	32972
40°	17344
45°	18465
50°	19123
55°	19487
60°	19601
65°	19183
70°	18113
75°	16802
80°	14912
85°	12035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 19603 cd/sqm



TEST NUMBER: P744794

CATALOG NUMBER: LD4D20D010-EU4DR7020359050-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	10.3
10°-20°	461.6	28.1
20°-30°	508.3	31.0
30°-40°	194.2	11.8
40°-50°	91.7	5.6
50°-60°	91.2	5.6
60°-70°	73.0	4.4
70°-80°	42.0	2.6
80°-90°	11.4	0.7
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°	1138.2	69.3
0°-40°	1332.4	81.2
0°-60°	1515.3	92.3
0°-90°	1641.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1641.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1846	
5°	1784	168
15°	1660	462
25°	1092	508
35°	247	194
45°	120	92
55°	102	91
65°	74	73
75°	40	42
85°	10	11
90°	0	



TEST NUMBER: P744794

CATALOG NUMBER: LD4D20D010-EU4DR7020359050-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	1845.6
2.5°	1826.3
5°	1784.0
7.5°	1748.6
10°	1714.4
12.5°	1685.5
15°	1659.5
17.5°	1596.7
20°	1507.5
22.5°	1315.3
25°	1092.3
27.5°	950.9
30°	737.8
32.5°	476.6
35°	247.2
37.5°	133.6
40°	121.6
42.5°	120.7
45°	119.5
47.5°	116.9
50°	112.5
52.5°	107.5
55°	102.3
57.5°	96.4
60°	89.7
62.5°	82.1
65°	74.2
67.5°	65.4
70°	56.7
72.5°	47.9
75°	39.8
77.5°	31.3
80°	23.7
82.5°	16.7
85°	9.6
87.5°	3.8
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)