

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: P744598

Luminaire Tested: LD4D20D010-EU4DR6020359030-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P744598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR6020359030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1475.6 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
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



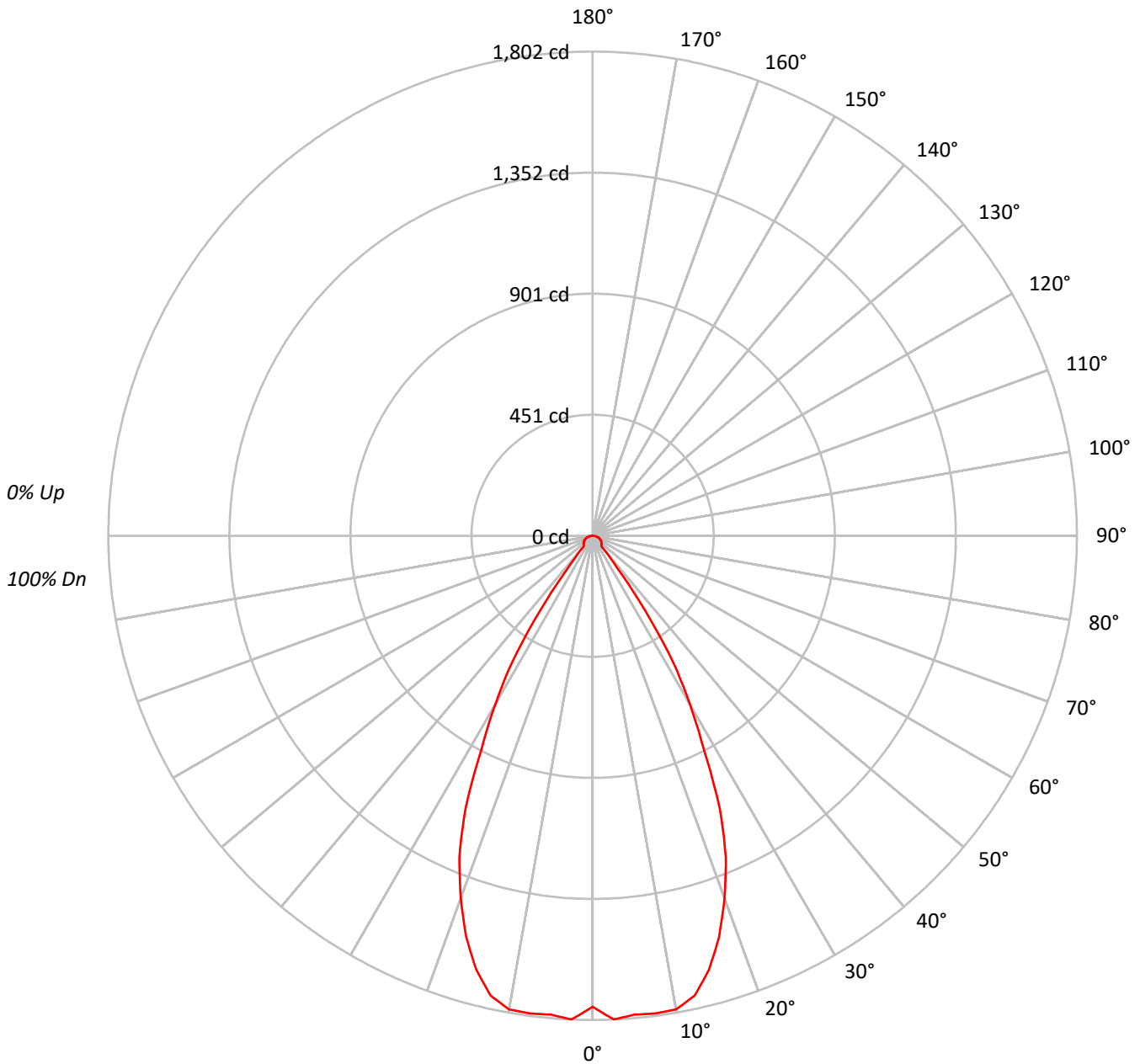
Downlight



TEST NUMBER: P744598

CATALOG NUMBER: LD4D20D010-EU4DR6020359030-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P744598

CATALOG NUMBER: LD4D20D010-EU4DR6020359030-4LBSQW1B

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			100																
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86																
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			80																
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75																
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70																
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66																
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			62																
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59																
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55																
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	191479
5°	196192
10°	198549
15°	189151
20°	166770
25°	134890
30°	91241
35°	45724
40°	7417
45°	7262
50°	7394
55°	7524
60°	7736
65°	7885
70°	8082
75°	8190
80°	7865
85°	6644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 8190 cd/sqm



TEST NUMBER: P744598

CATALOG NUMBER: LD4D20D010-EU4DR6020359030-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	11.6
10°-20°	462.5	31.3
20°-30°	497.6	33.7
30°-40°	216.3	14.7
40°-50°	36.3	2.5
50°-60°	35.3	2.4
60°-70°	30.2	2.0
70°-80°	20.2	1.4
80°-90°	6.1	0.4
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°	1131.1	76.7
0°-40°	1347.5	91.3
0°-60°	1419.1	96.2
0°-90°	1475.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1475.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1752	
5°	1789	171
15°	1672	463
25°	1119	498
35°	343	216
45°	47	36
55°	40	35
65°	30	30
75°	19	20
85°	5	6
90°	0	



TEST NUMBER: P744598

CATALOG NUMBER: LD4D20D010-EU4DR6020359030-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	1752.5
2.5°	1801.7
5°	1788.8
7.5°	1792.8
10°	1789.6
12.5°	1752.7
15°	1672.2
17.5°	1564.1
20°	1434.3
22.5°	1295.4
25°	1118.9
27.5°	894.9
30°	723.2
32.5°	557.4
35°	342.8
37.5°	146.6
40°	52.0
42.5°	47.9
45°	47.0
47.5°	45.4
50°	43.5
52.5°	41.5
55°	39.5
57.5°	37.4
60°	35.4
62.5°	33.1
65°	30.5
67.5°	28.1
70°	25.3
72.5°	22.3
75°	19.4
77.5°	16.0
80°	12.5
82.5°	8.9
85°	5.3
87.5°	1.8
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)