

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: P743833

Luminaire Tested: LD4D20D010-EU4DR1015209040-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR1015209040-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 10° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1869.5 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 0.17 / 0.17 / 0.18
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

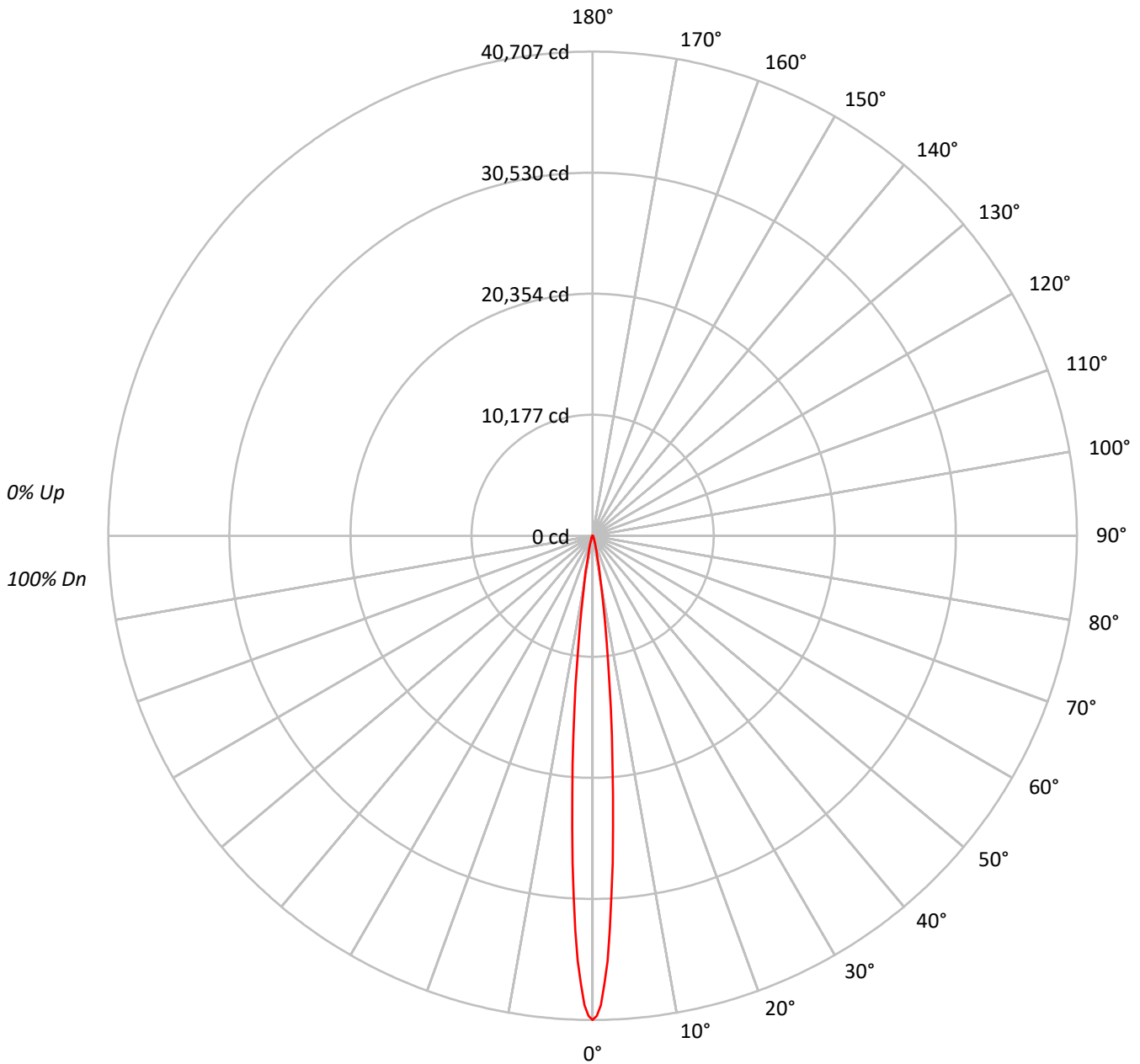


Downlight



TEST NUMBER: P743833
CATALOG NUMBER: LD4D20D010-EU4DR1015209040-4LBCSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P743833

CATALOG NUMBER: LD4D20D010-EU4DR1015209040-4LBCSSQMB

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4447667
5°	2109077
10°	432546
15°	118748
20°	47858
25°	25642
30°	15165
35°	9870
40°	6589
45°	4280
50°	2363
55°	1753
60°	1005
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4280 cd/sqm



TEST NUMBER: P743833

CATALOG NUMBER: LD4D20D010-EU4DR1015209040-4LBCSSQMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1329.4	71.1
10°-20°	359.7	19.2
20°-30°	103.0	5.5
30°-40°	47.0	2.5
40°-50°	21.6	1.2
50°-60°	7.2	0.4
60°-70°	1.7	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1792.1	95.9
0°-40°	1839.1	98.4
0°-60°	1867.8	99.9
0°-90°	1869.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1869.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	40707	
5°	19230	###
15°	1050	360
25°	213	103
35°	74	47
45°	28	22
55°	9	7
65°	0	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P743833

CATALOG NUMBER: LD4D20D010-EU4DR1015209040-4LBCSSQMB

CANDELA DISTRIBUTION (FULL):

	0°
0°	40706.9
0.5°	40355.4
1°	39453.6
1.5°	37714.7
2°	35767.7
2.5°	33196.4
3°	30338.3
3.5°	27572.7
4°	24589.7
4.5°	21842.6
5°	19229.7
5.5°	16861.8
6°	14604.9
6.5°	12620.9
7°	10752.5
7.5°	9157.0
8°	7741.8
8.5°	6502.4
9°	5429.4
9.5°	4610.9
10°	3898.7
12.5°	1859.1
15°	1049.8
17.5°	638.2
20°	411.6
22.5°	286.7
25°	212.7
27.5°	157.2
30°	120.2
32.5°	92.5
35°	74.0
37.5°	55.5
40°	46.2
42.5°	37.0
45°	27.7
47.5°	18.5
50°	13.9
52.5°	9.2
55°	9.2
57.5°	4.6
60°	4.6
62.5°	4.6
65°	0.0



TEST NUMBER: P743833
CATALOG NUMBER: LD4D20D010-EU4DR1015209040-4LBCSSQMB

CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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





— 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





67.5°		0.0
70°		0.0

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

Scaled Data Report



(END OF REPORT)