

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: P740942

Luminaire Tested: LD4D08D010-EU4DR200210IC9027-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D08D010-EU4DR200210IC9027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 717.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 8.9
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



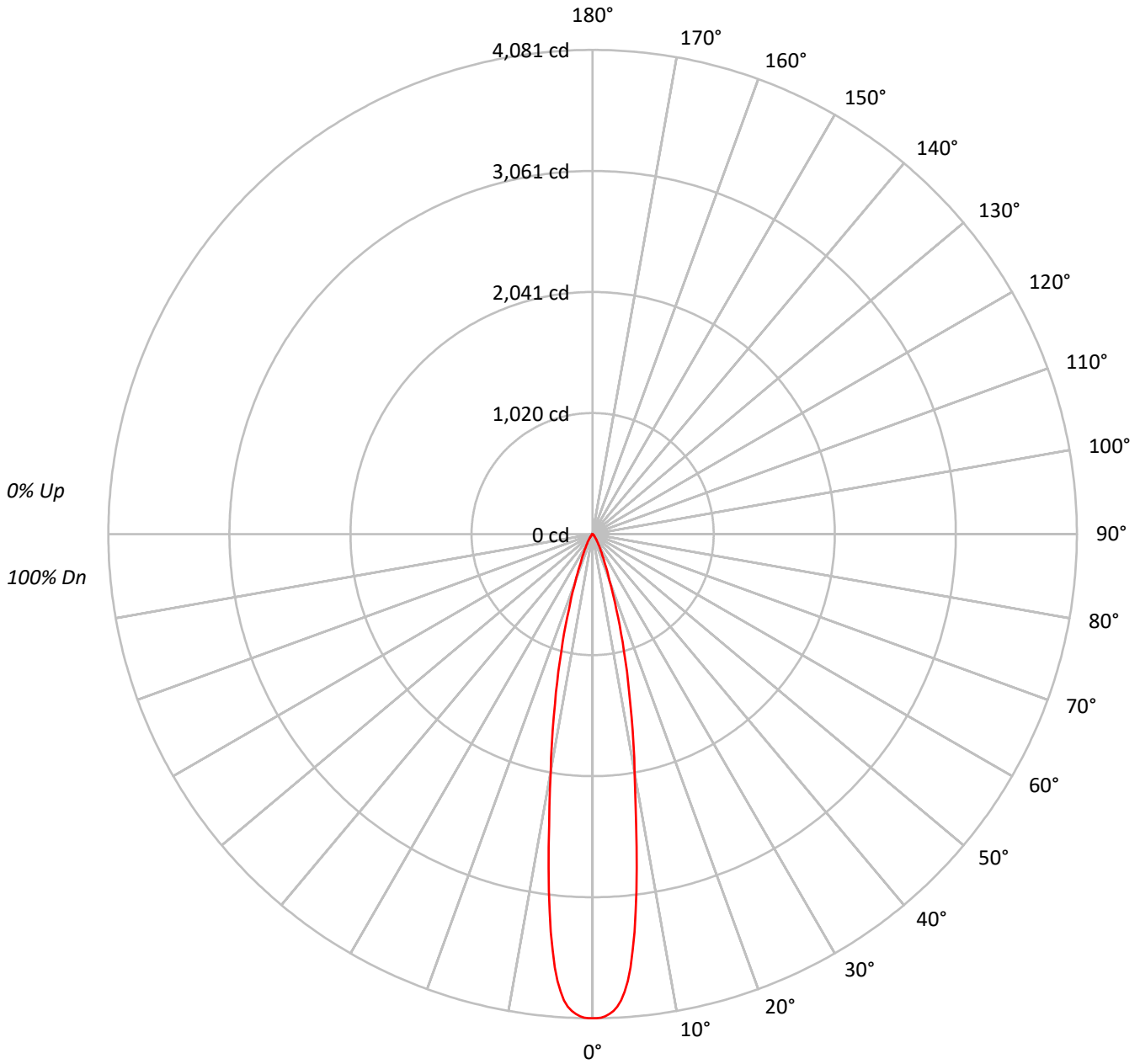
Downlight



TEST NUMBER: P740942

CATALOG NUMBER: LD4D08D010-EU4DR200210IC9027-4LBCSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P740942

CATALOG NUMBER: LD4D08D010-EU4DR200210IC9027-4LBCSSQMW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	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	115	113	111	109	113	111	109	108	107	106	104		103	102	101		100	99	98	97
2	111	108	105	102	109	106	104	101	103	101	99		100	99	97		98	96	95	94
3	108	103	100	97	106	102	99	96	100	97	95		97	95	93		95	93	92	91
4	105	99	96	93	103	98	95	92	96	93	91		95	92	90		93	91	89	88
5	102	96	92	89	100	95	91	89	94	90	88		92	89	87		91	88	86	85
6	99	93	89	86	98	92	88	86	91	87	85		90	87	84		88	86	84	83
7	96	90	86	83	95	89	86	83	88	85	82		87	84	82		86	84	82	81
8	94	87	83	81	93	87	83	80	86	83	80		85	82	80		84	82	80	79
9	91	85	81	78	91	85	81	78	84	80	78		83	80	78		82	80	78	77
10	89	83	79	76	88	82	79	76	82	78	76		81	78	76		81	78	76	75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	445882
5°	402277
10°	225776
15°	114767
20°	48590
25°	22435
30°	11872
35°	6402
40°	3423
45°	2024
50°	1173
55°	629
60°	393
65°	284
70°	128
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2024 cd/sqm



TEST NUMBER: P740942

CATALOG NUMBER: LD4D08D010-EU4DR200210IC9027-4LBCSSQMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.6	40.5
10°-20°	286.1	39.9
20°-30°	93.5	13.0
30°-40°	31.8	4.4
40°-50°	10.7	1.5
50°-60°	3.2	0.4
60°-70°	1.1	0.2
70°-80°	0.1	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°	670.1	93.5
0°-40°	701.9	97.9
0°-60°	715.9	99.8
0°-90°	717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	717.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4081	
5°	3668	291
15°	1015	286
25°	186	93
35°	48	32
45°	13	11
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P740942

CATALOG NUMBER: LD4D08D010-EU4DR200210IC9027-4LBCSSQMW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4080.9
0.5°	4080.9
1°	4075.8
1.5°	4065.7
2°	4047.1
2.5°	4022.4
3°	3987.5
3.5°	3938.8
4°	3866.5
4.5°	3778.6
5°	3667.8
5.5°	3522.0
6°	3372.7
6.5°	3201.5
7°	3034.0
7.5°	2837.8
8°	2662.6
8.5°	2486.4
9°	2323.6
9.5°	2174.2
10°	2035.0
12.5°	1461.2
15°	1014.6
17.5°	662.8
20°	417.9
22.5°	270.7
25°	186.1
27.5°	130.8
30°	94.1
32.5°	67.6
35°	48.0
37.5°	33.4
40°	24.0
42.5°	17.4
45°	13.1
47.5°	10.2
50°	6.9
52.5°	4.4
55°	3.3
57.5°	2.5
60°	1.8
62.5°	1.5
65°	1.1



TEST NUMBER: P740942
CATALOG NUMBER: LD4D08D010-EU4DR200210IC9027-4LBCSSQMW

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



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

Scaled Data Report



67.5°		0.7
70°		0.4

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

Scaled Data Report



(END OF REPORT)