

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: P744380

Luminaire Tested: LD4D20D010-EU4DR4520359040-4LBCSSQMMS

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR4520359040-4LBCSSQMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1964.8 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
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



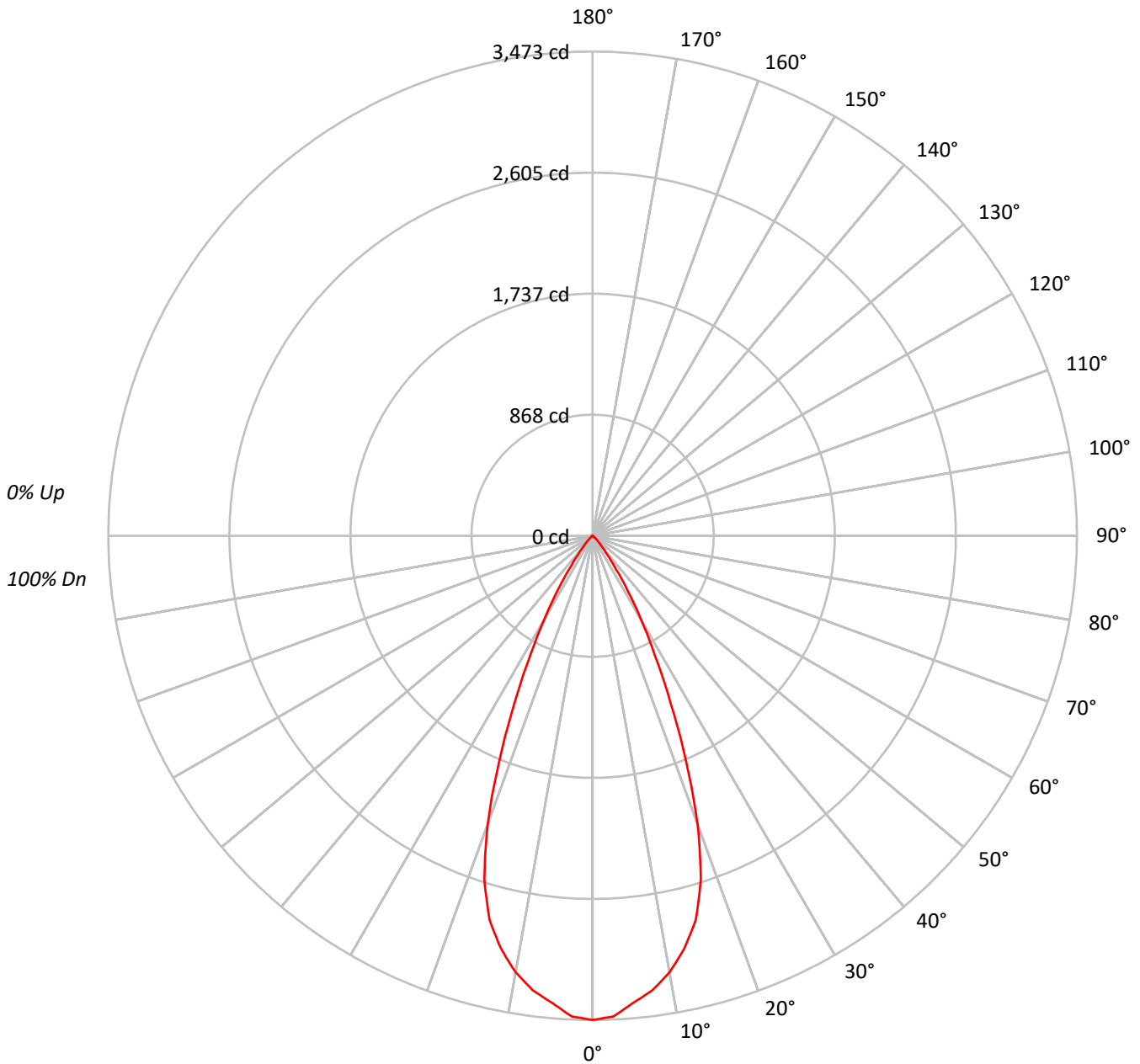
Downlight



TEST NUMBER: P744380

CATALOG NUMBER: LD4D20D010-EU4DR4520359040-4LBCSSQMMS

Luminous Intensity Polar Plot





TEST NUMBER: P744380

CATALOG NUMBER: LD4D20D010-EU4DR4520359040-4LBCSSQMMS

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	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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95																											
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90																											
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85																											
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81																											
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77																											
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73																											
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69																											
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66																											
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63																											
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	379430
5°	368628
10°	352676
15°	322774
20°	256079
25°	159869
30°	88113
35°	39561
40°	15589
45°	7355
50°	3485
55°	1829
60°	896
65°	207
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7355 cd/sqm



TEST NUMBER: P744380

CATALOG NUMBER: LD4D20D010-EU4DR4520359040-4LBCSSQMMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.8	16.1
10°-20°	777.2	39.6
20°-30°	615.5	31.3
30°-40°	205.0	10.4
40°-50°	40.7	2.1
50°-60°	9.2	0.5
60°-70°	1.3	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°	1708.5	87.0
0°-40°	1913.5	97.4
0°-60°	1963.4	99.9
0°-90°	1964.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1964.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3473	
5°	3361	316
15°	2854	777
25°	1326	615
35°	297	205
45°	48	41
55°	10	9
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P744380

CATALOG NUMBER: LD4D20D010-EU4DR4520359040-4LBCSSQMMS

CANDELA DISTRIBUTION (FULL):

0°	
0°	3472.7
2.5°	3450.1
5°	3361.0
7.5°	3287.5
10°	3178.8
12.5°	3034.1
15°	2853.5
17.5°	2582.0
20°	2202.4
22.5°	1750.0
25°	1326.1
27.5°	971.0
30°	698.4
32.5°	475.0
35°	296.6
37.5°	175.9
40°	109.3
42.5°	71.8
45°	47.6
47.5°	30.6
50°	20.5
52.5°	13.6
55°	9.6
57.5°	6.3
60°	4.1
62.5°	2.2
65°	0.8
67.5°	0.3
70°	0.3
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



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)