

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: P744222

Luminaire Tested: LD4D20D010-EU4DR3520359035-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR3520359035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1701.4 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
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



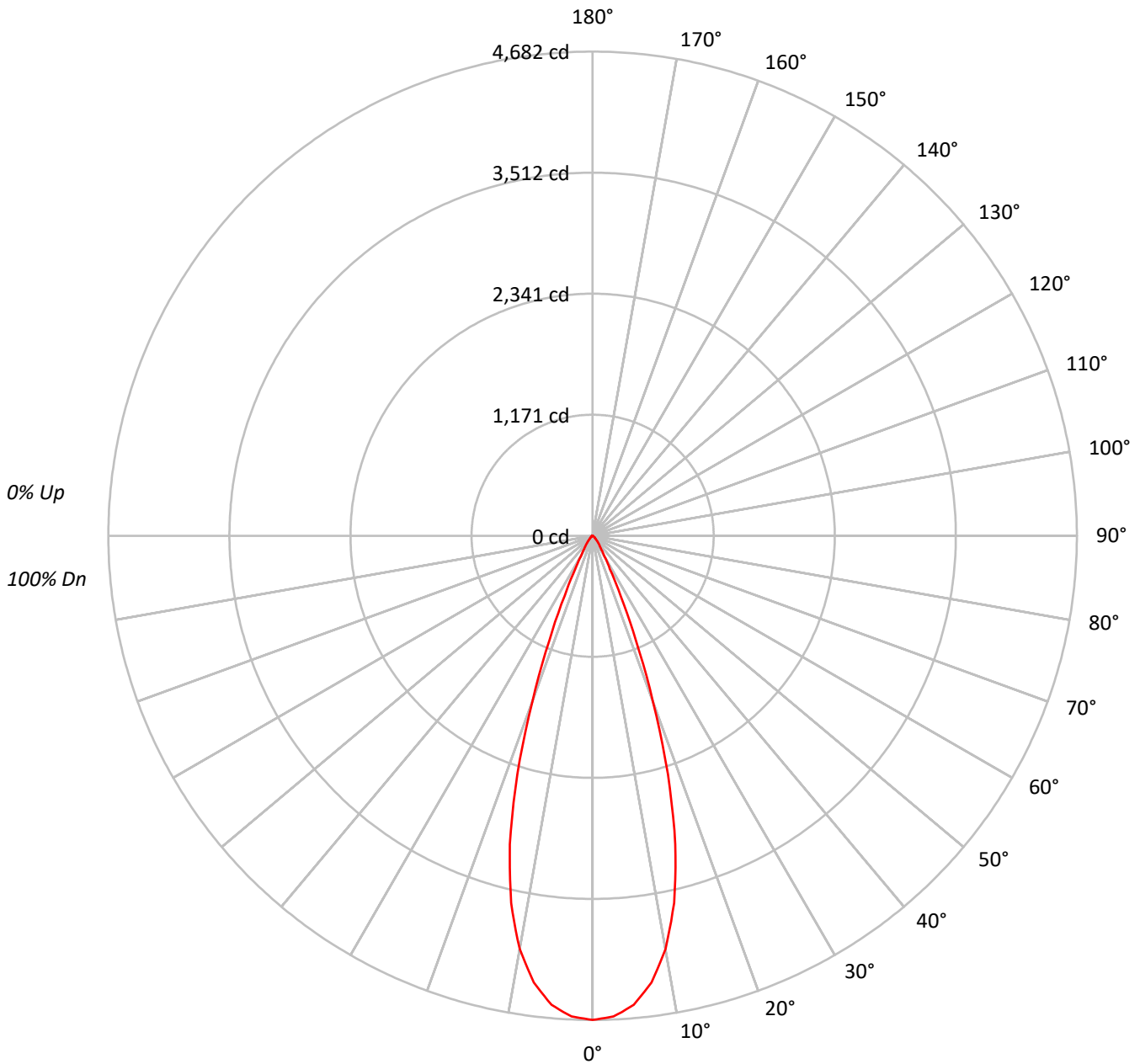
Downlight



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	511515
5°	499496
10°	450176
15°	349412
20°	198187
25°	77096
30°	28765
35°	15766
40°	10298
45°	6273
50°	3995
55°	2819
60°	2076
65°	1138
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6273 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.9	24.6
10°-20°	817.8	48.1
20°-30°	333.5	19.6
30°-40°	79.8	4.7
40°-50°	33.3	2.0
50°-60°	13.8	0.8
60°-70°	4.3	0.3
70°-80°	0.1	0.0
80°-90°	0.1	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°	1570.1	92.3
0°-40°	1650.0	97.0
0°-60°	1697.0	99.7
0°-90°	1701.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1701.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4682	
5°	4554	419
15°	3089	818
25°	640	334
35°	118	80
45°	41	33
55°	15	14
65°	4	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4681.6
2.5°	4653.5
5°	4554.2
7.5°	4356.1
10°	4057.6
12.5°	3637.4
15°	3089.0
17.5°	2418.3
20°	1704.5
22.5°	1086.8
25°	639.5
27.5°	361.5
30°	228.0
32.5°	160.1
35°	118.2
37.5°	91.4
40°	72.2
42.5°	55.6
45°	40.6
47.5°	30.4
50°	23.5
52.5°	18.6
55°	14.8
57.5°	12.0
60°	9.5
62.5°	6.9
65°	4.4
67.5°	1.5
70°	0.2
72.5°	0.2
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.2
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

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— 0°-180°

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