

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: P744650

Luminaire Tested: LD4D20D010-EU4DR6520359024-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P744650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR6520359024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1078.7 lumens
Efficiency: N/A
Efficacy: 46.7 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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



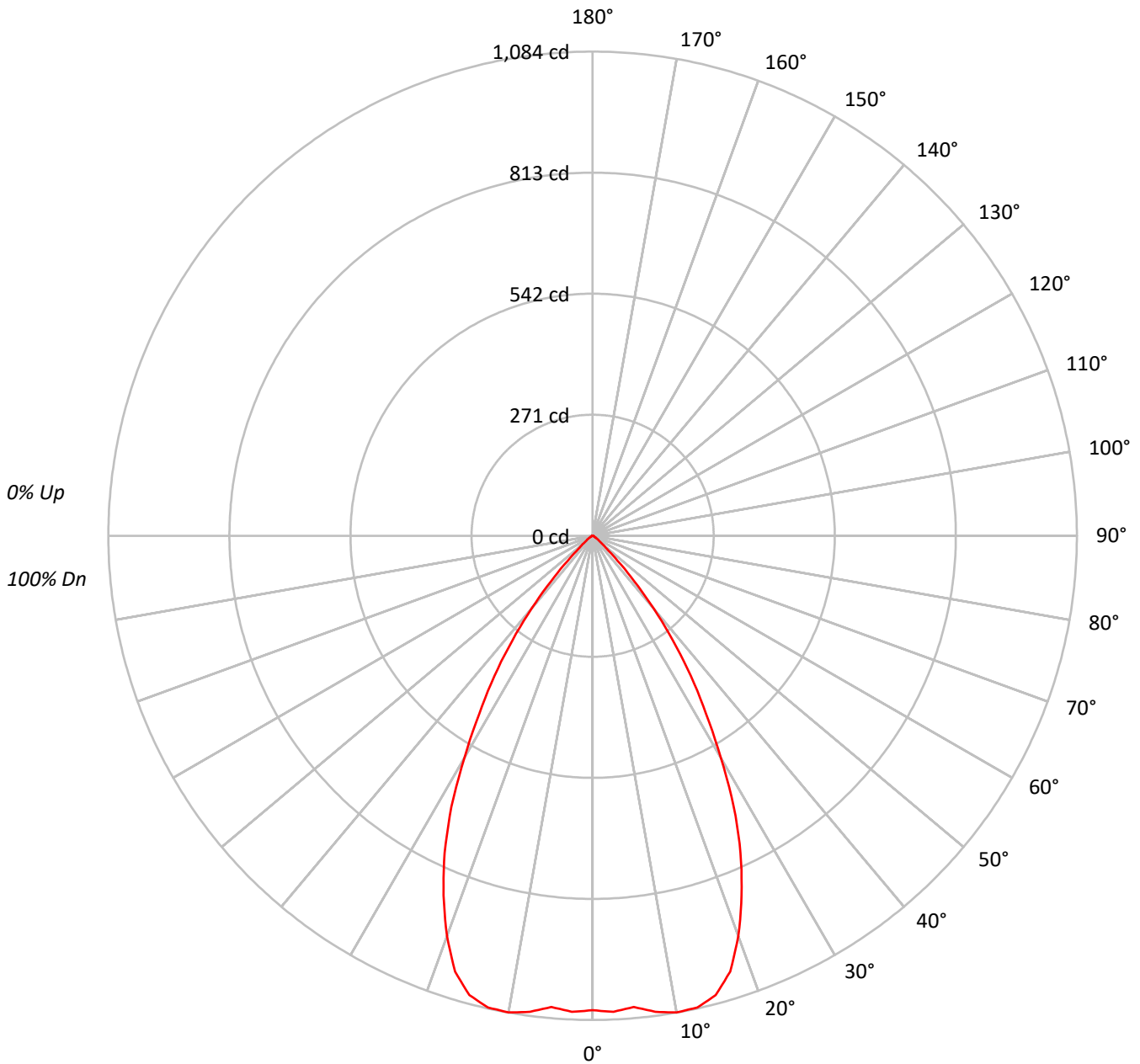
Downlight



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87		
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80		
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69		
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65		
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60		
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57		
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53		
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	116046
5°	116138
10°	120221
15°	120434
20°	110878
25°	94468
30°	72317
35°	51099
40°	30152
45°	12238
50°	4436
55°	2476
60°	1420
65°	776
70°	831
75°	633
80°	629
85°	627

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12238 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	9.5
10°-20°	295.0	27.3
20°-30°	353.9	32.8
30°-40°	237.9	22.1
40°-50°	71.2	6.6
50°-60°	12.6	1.2
60°-70°	3.6	0.3
70°-80°	1.7	0.2
80°-90°	0.5	0.1
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°	751.2	69.6
0°-40°	989.1	91.7
0°-60°	1072.8	99.5
0°-90°	1078.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1062	
5°	1059	102
15°	1065	295
25°	784	354
35°	383	238
45°	79	71
55°	13	13
65°	3	4
75°	2	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1062.1
2.5°	1066.6
5°	1058.9
7.5°	1074.9
10°	1083.6
12.5°	1081.6
15°	1064.7
17.5°	1023.3
20°	953.6
22.5°	871.5
25°	783.6
27.5°	684.4
30°	573.2
32.5°	472.4
35°	383.1
37.5°	294.8
40°	211.4
42.5°	138.1
45°	79.2
47.5°	41.9
50°	26.1
52.5°	18.1
55°	13.0
57.5°	9.3
60°	6.5
62.5°	4.2
65°	3.0
67.5°	2.7
70°	2.6
72.5°	1.9
75°	1.5
77.5°	1.4
80°	1.0
82.5°	0.7
85°	0.5
87.5°	0.3
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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(END OF REPORT)