

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: P744641

Luminaire Tested: LD4D20D010-EU4DR6520359024-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR6520359024-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1442.1 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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



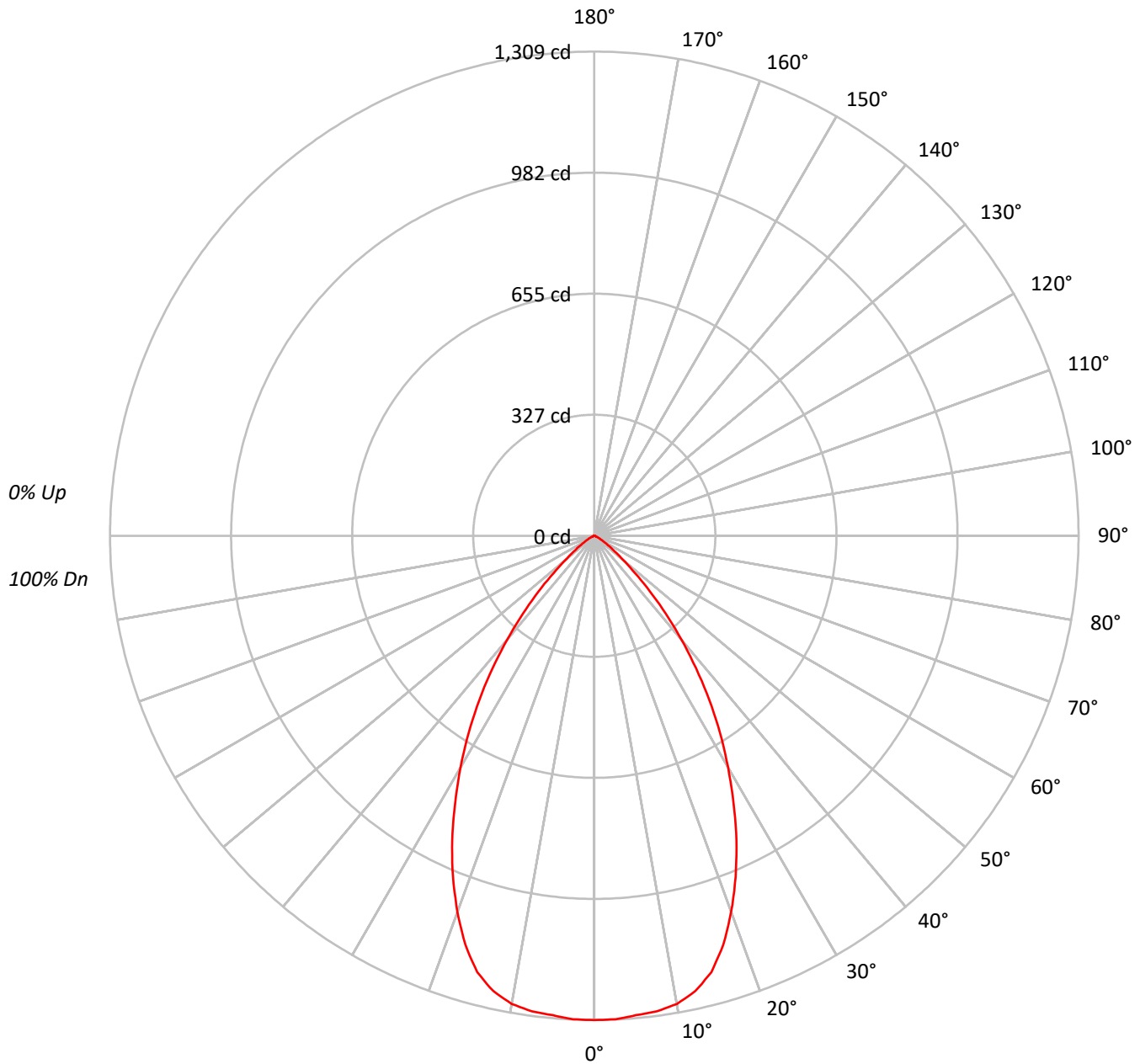
Downlight



TEST NUMBER: P744641

CATALOG NUMBER: LD4D20D010-EU4DR6520359024-4LBCSSQMW

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
RW	70	50	30	10		70	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
1	113	110	107	105		111	108	105	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94		105	100	96	92		97	93	90		94	91	88		91	89	87
3	101	94	88	84		99	92	87	83		90	86	82		87	84	81		85	82	80
4	95	87	81	76		93	86	80	76		84	79	75		82	77	74		80	76	73
5	90	81	74	70		88	80	74	69		78	73	69		76	72	68		75	71	68
6	85	75	69	64		83	74	68	64		73	67	63		71	67	63		70	66	62
7	80	70	64	59		79	69	63	59		68	63	59		67	62	58		66	61	58
8	76	66	59	55		75	65	59	55		64	58	54		63	58	54		62	57	54
9	72	61	55	51		71	61	55	51		60	54	51		59	54	50		58	54	50
10	68	58	52	47		67	57	51	47		57	51	47		56	51	47		55	50	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	76474
5°	76280
10°	76213
15°	73863
20°	67242
25°	58597
30°	48738
35°	38615
40°	27874
45°	17609
50°	9177
55°	4877
60°	2558
65°	1410
70°	581
75°	654
80°	471
85°	402

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17609 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	8.6
10°-20°	339.1	23.5
20°-30°	414.4	28.7
30°-40°	336.3	23.3
40°-50°	167.6	11.6
50°-60°	46.7	3.2
60°-70°	10.6	0.7
70°-80°	2.8	0.2
80°-90°	0.7	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°	877.3	60.8
0°-40°	1213.6	84.2
0°-60°	1428.0	99.0
0°-90°	1442.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1442.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1309	
5°	1301	124
15°	1222	339
25°	909	414
35°	542	336
45°	213	168
55°	48	47
65°	10	11
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1309.4
2.5°	1308.4
5°	1301.1
7.5°	1296.8
10°	1285.1
12.5°	1261.2
15°	1221.6
17.5°	1159.7
20°	1081.9
22.5°	998.0
25°	909.3
27.5°	814.4
30°	722.7
32.5°	632.1
35°	541.6
37.5°	451.4
40°	365.6
42.5°	285.2
45°	213.2
47.5°	148.6
50°	101.0
52.5°	69.7
55°	47.9
57.5°	32.3
60°	21.9
62.5°	15.2
65°	10.2
67.5°	5.2
70°	3.4
72.5°	3.3
75°	2.9
77.5°	1.9
80°	1.4
82.5°	1.0
85°	0.6
87.5°	0.4
90°	0.0



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— 0°-180°







(END OF REPORT)