

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: P780359

Luminaire Tested: LER4D20D010-EC4DR6520359040-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780359
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: LER4D20D010-EC4DR6520359040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1753.3 lumens
Efficiency: N/A
Efficacy: 75.9 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



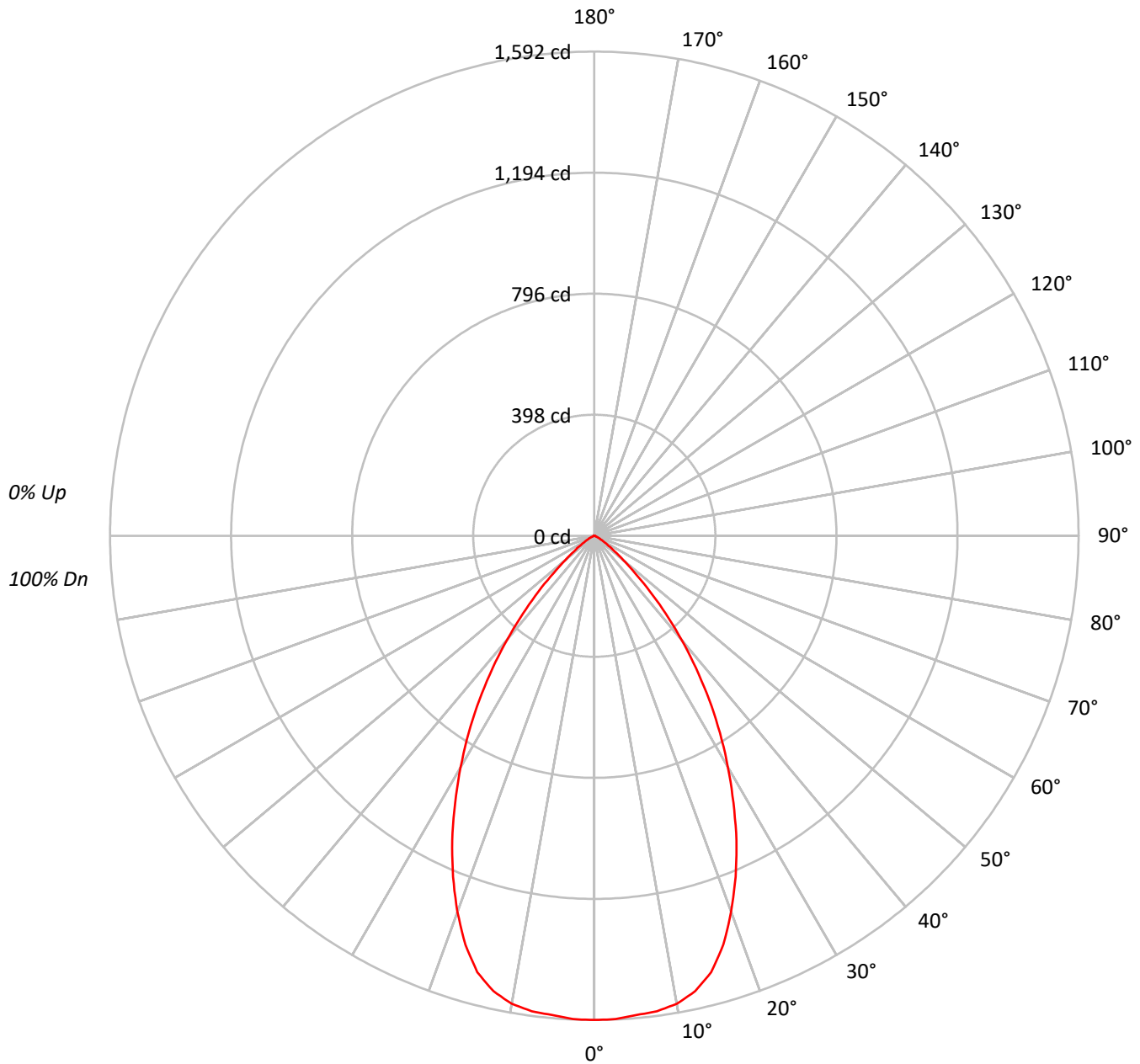
Downlight



TEST NUMBER: P780359

CATALOG NUMBER: LER4D20D010-EC4DR6520359040-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P780359

CATALOG NUMBER: LER4D20D010-EC4DR6520359040-4LBS1MW

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°	92973
5°	92742
10°	92664
15°	89807
20°	81755
25°	71247
30°	59259
35°	46950
40°	33889
45°	21409
50°	11158
55°	5936
60°	3107
65°	1714
70°	717
75°	790
80°	572
85°	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21409 cd/sqm



TEST NUMBER: P780359

CATALOG NUMBER: LER4D20D010-EC4DR6520359040-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	8.6
10°-20°	412.3	23.5
20°-30°	503.9	28.7
30°-40°	408.9	23.3
40°-50°	203.7	11.6
50°-60°	56.8	3.2
60°-70°	12.9	0.7
70°-80°	3.4	0.2
80°-90°	0.9	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°	1066.7	60.8
0°-40°	1475.6	84.2
0°-60°	1736.2	99.0
0°-90°	1753.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1753.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1592	
5°	1582	151
15°	1485	412
25°	1106	504
35°	658	409
45°	259	204
55°	58	57
65°	12	13
75°	4	3
85°	1	1
90°	0	



TEST NUMBER: P780359

CATALOG NUMBER: LER4D20D010-EC4DR6520359040-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1591.9
2.5°	1590.8
5°	1581.9
7.5°	1576.8
10°	1562.5
12.5°	1533.4
15°	1485.3
17.5°	1409.9
20°	1315.4
22.5°	1213.5
25°	1105.6
27.5°	990.3
30°	878.7
32.5°	768.5
35°	658.5
37.5°	548.8
40°	444.5
42.5°	346.7
45°	259.2
47.5°	180.6
50°	122.8
52.5°	84.7
55°	58.3
57.5°	39.3
60°	26.6
62.5°	18.5
65°	12.4
67.5°	6.3
70°	4.2
72.5°	4.0
75°	3.5
77.5°	2.3
80°	1.7
82.5°	1.1
85°	0.7
87.5°	0.5
90°	0.0



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°







(END OF REPORT)