

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: P780223

Luminaire Tested: LER4D20D010-EC4DR4020359024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR4020359024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1679.4 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
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



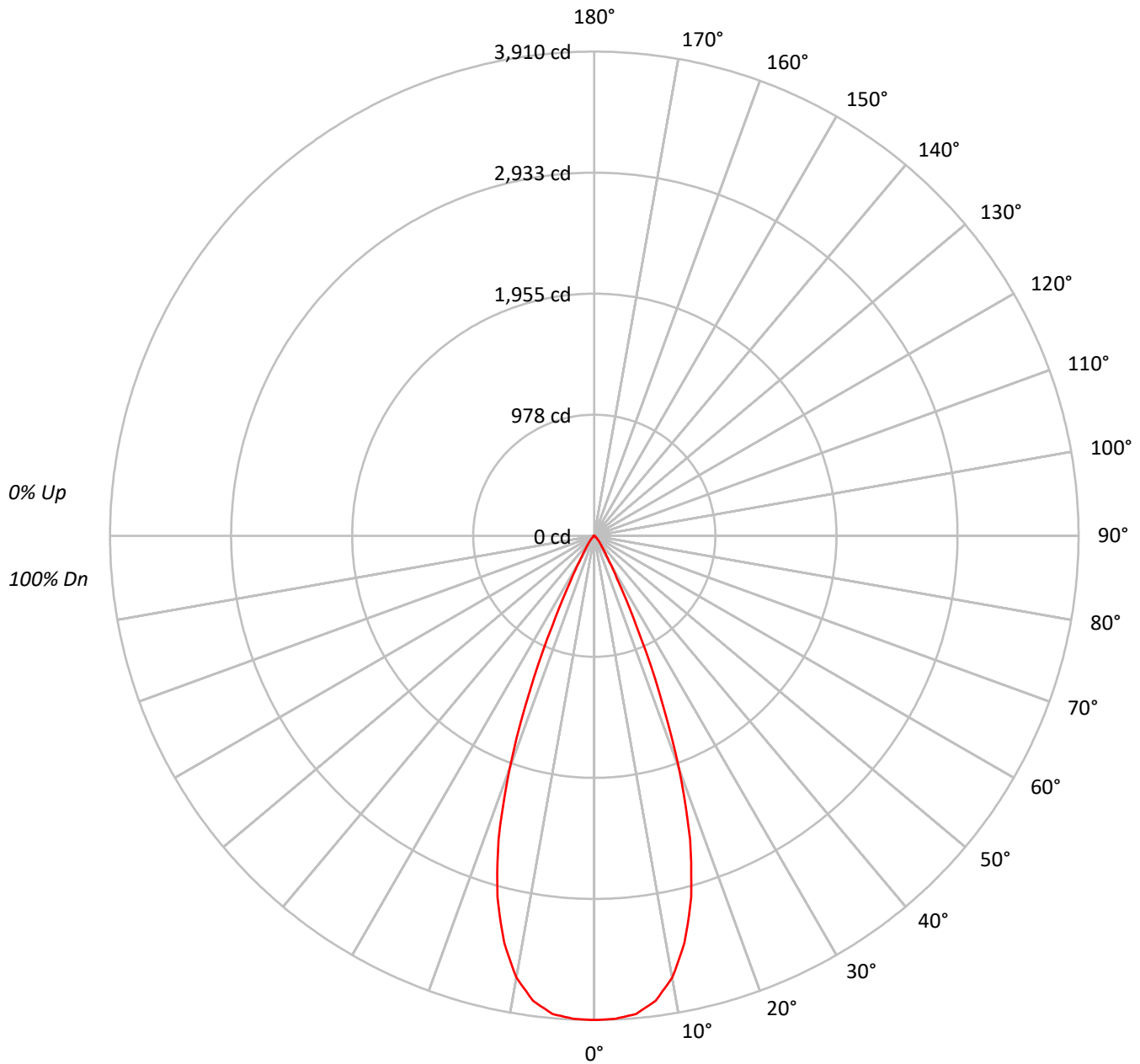
Downlight



TEST NUMBER: P780223

CATALOG NUMBER: LER4D20D010-EC4DR4020359024-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P780223

CATALOG NUMBER: LER4D20D010-EC4DR4020359024-4LBS1MW

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	115	112	110	108		112	110	108	107		106	105	103		103	101	100		99	98	97
2	110	106	103	100		108	105	102	99		102	99	97		99	97	95		96	95	93
3	106	101	97	94		104	100	96	93		97	94	92		95	93	90		93	91	89
4	102	97	92	89		101	95	91	88		93	90	87		92	89	86		90	87	85
5	99	92	88	84		97	91	87	84		90	86	83		88	85	83		87	84	82
6	95	88	84	80		94	88	83	80		86	82	80		85	82	79		84	81	79
7	92	85	80	77		91	84	80	77		83	79	76		82	79	76		81	78	76
8	89	82	77	74		88	81	77	74		80	76	73		79	76	73		78	75	73
9	86	79	74	71		85	78	74	71		77	73	71		76	73	70		76	72	70
10	83	76	71	68		82	75	71	68		75	71	68		74	70	68		73	70	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	427210
5°	425134
10°	401847
15°	341619
20°	232836
25°	97156
30°	30544
35°	14205
40°	7859
45°	3600
50°	1751
55°	952
60°	503
65°	181
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3600 cd/sqm



TEST NUMBER: P780223

CATALOG NUMBER: LER4D20D010-EC4DR4020359024-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.9	21.6
10°-20°	810.8	48.3
20°-30°	405.9	24.2
30°-40°	74.4	4.4
40°-50°	20.5	1.2
50°-60°	4.8	0.3
60°-70°	0.9	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°	1578.7	94.0
0°-40°	1653.1	98.4
0°-60°	1678.4	99.9
0°-90°	1679.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1679.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3910	
5°	3876	362
15°	3020	811
25°	806	406
35°	106	74
45°	23	21
55°	5	5
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P780223

CATALOG NUMBER: LER4D20D010-EC4DR4020359024-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3910.0
2.5°	3904.3
5°	3876.2
7.5°	3786.7
10°	3622.0
12.5°	3365.2
15°	3020.1
17.5°	2571.3
20°	2002.5
22.5°	1365.2
25°	805.9
27.5°	426.0
30°	242.1
32.5°	156.5
35°	106.5
37.5°	76.1
40°	55.1
42.5°	37.7
45°	23.3
47.5°	14.8
50°	10.3
52.5°	7.3
55°	5.0
57.5°	3.2
60°	2.3
62.5°	1.4
65°	0.7
67.5°	0.5
70°	0.2
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)