

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: P744255

Luminaire Tested: LD4D20D010-EU4DR4020359024-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744255
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: LD4D20D010-EU4DR4020359024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 1593.4 lumens
Efficiency: N/A
Efficacy: 69.0 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



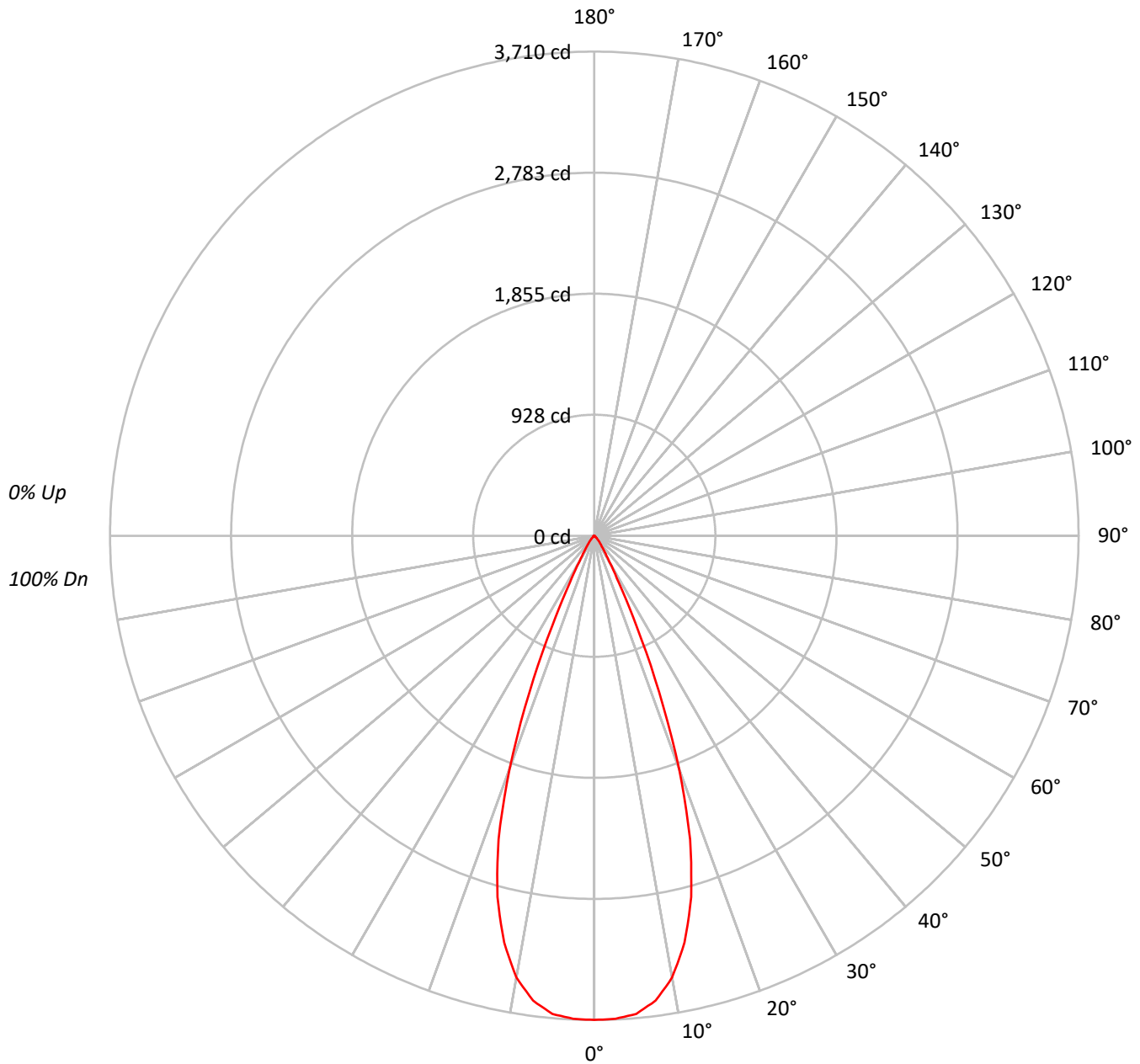
Downlight



TEST NUMBER: P744255

CATALOG NUMBER: LD4D20D010-EU4DR4020359024-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P744255

CATALOG NUMBER: LD4D20D010-EU4DR4020359024-4LBDP1MW

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	50	30	10
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	97	96		
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92		
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88		
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84		
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81		
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77		
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74		
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72		
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69		
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	405325
5°	403363
10°	381256
15°	324120
20°	220907
25°	92165
30°	28980
35°	13472
40°	7460
45°	3415
50°	1649
55°	914
60°	481
65°	155
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3415 cd/sqm



TEST NUMBER: P744255

CATALOG NUMBER: LD4D20D010-EU4DR4020359024-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.4	21.6
10°-20°	769.3	48.3
20°-30°	385.1	24.2
30°-40°	70.6	4.4
40°-50°	19.5	1.2
50°-60°	4.6	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°	1497.8	94.0
0°-40°	1568.4	98.4
0°-60°	1592.4	99.9
0°-90°	1593.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1593.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3710	
5°	3678	343
15°	2865	769
25°	764	385
35°	101	71
45°	22	19
55°	5	5
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P744255

CATALOG NUMBER: LD4D20D010-EU4DR4020359024-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3709.7
2.5°	3704.3
5°	3677.7
7.5°	3592.7
10°	3436.4
12.5°	3192.8
15°	2865.4
17.5°	2439.6
20°	1899.9
22.5°	1295.3
25°	764.5
27.5°	404.2
30°	229.7
32.5°	148.5
35°	101.0
37.5°	72.2
40°	52.3
42.5°	35.8
45°	22.1
47.5°	14.1
50°	9.7
52.5°	6.9
55°	4.8
57.5°	3.0
60°	2.2
62.5°	1.3
65°	0.6
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)