

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: P739936

Luminaire Tested: LD4D05D010-EU4DR200210IC9027-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D05D010-EU4DR200210IC9027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 652.1 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
Input Voltage (V): NR
Input Current (A_{in}): 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

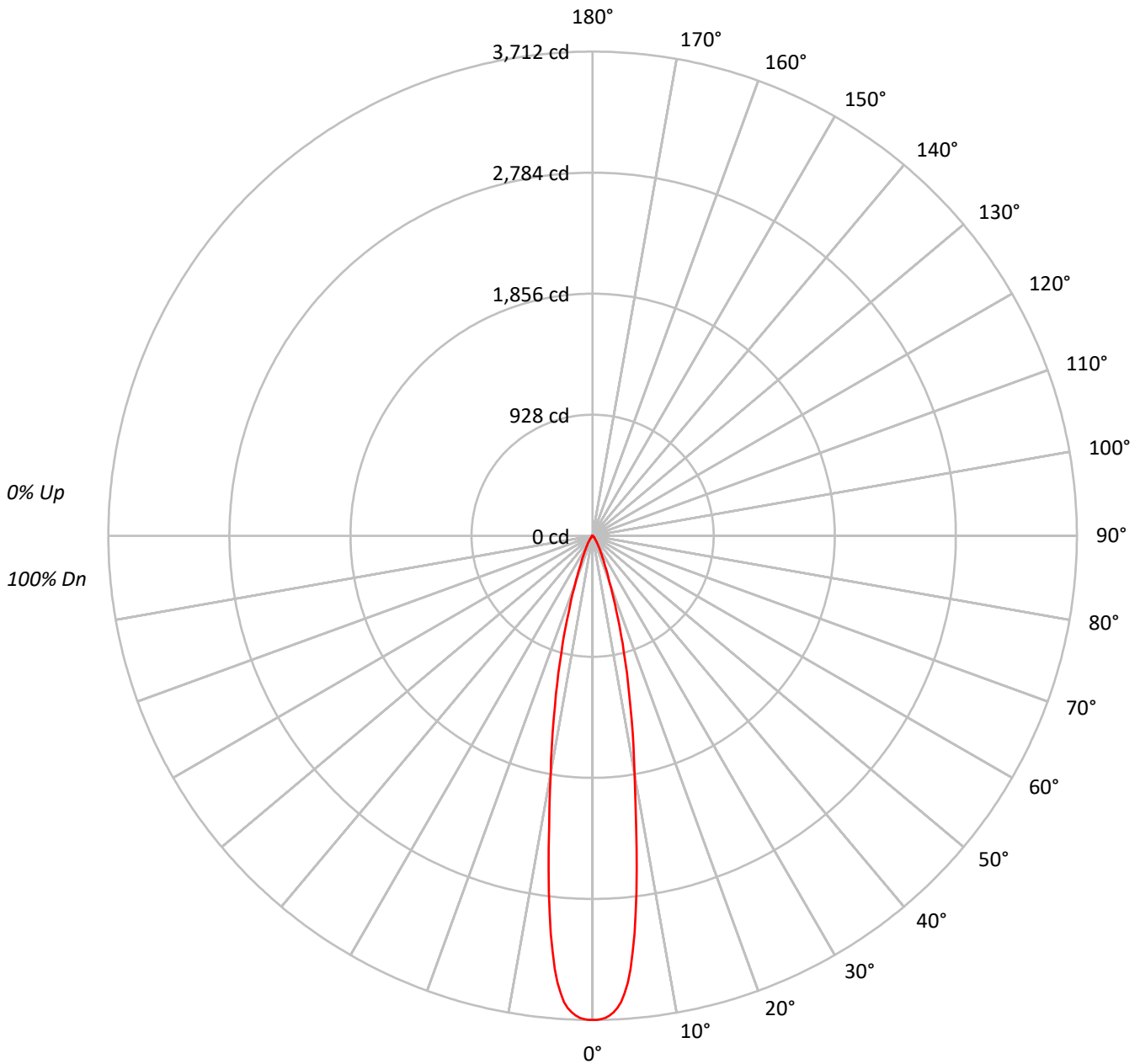


Downlight



TEST NUMBER: P739936
CATALOG NUMBER: LD4D05D010-EU4DR200210IC9027-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P739936

CATALOG NUMBER: LD4D05D010-EU4DR200210IC9027-4LBS1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	100	99	98	97	98	96	95	94												
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	98	96	95	94	93	92	91	94												
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	98	96	95	94	93	92	91	94												
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	98	96	95	94	93	92	91	88												
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	98	96	95	94	93	92	91	85												
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	98	96	95	94	93	92	91	83												
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	98	96	95	94	93	92	91	81												
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	98	96	95	94	93	92	91	79												
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	98	96	95	94	93	92	91	77												
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	98	96	95	94	93	92	91	75												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	405521
5°	365864
10°	205339
15°	104383
20°	44195
25°	20398
30°	10800
35°	5815
40°	3109
45°	1839
50°	1071
55°	571
60°	371
65°	259
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1839 cd/sqm



TEST NUMBER: P739936

CATALOG NUMBER: LD4D05D010-EU4DR200210IC9027-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.3	40.5
10°-20°	260.2	39.9
20°-30°	85.0	13.0
30°-40°	28.9	4.4
40°-50°	9.7	1.5
50°-60°	2.9	0.5
60°-70°	1.0	0.2
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°	609.5	93.5
0°-40°	638.4	97.9
0°-60°	651.1	99.8
0°-90°	652.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	652.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3712	
5°	3336	264
15°	923	260
25°	169	85
35°	44	29
45°	12	10
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P739936

CATALOG NUMBER: LD4D05D010-EU4DR200210IC9027-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3711.5
0.5°	3711.5
1°	3706.9
1.5°	3697.7
2°	3680.8
2.5°	3658.3
3°	3626.6
3.5°	3582.3
4°	3516.5
4.5°	3436.6
5°	3335.8
5.5°	3203.2
6°	3067.4
6.5°	2911.7
7°	2759.4
7.5°	2580.9
8°	2421.6
8.5°	2261.3
9°	2113.2
9.5°	1977.4
10°	1850.8
12.5°	1328.9
15°	922.8
17.5°	602.8
20°	380.1
22.5°	246.2
25°	169.2
27.5°	119.0
30°	85.6
32.5°	61.5
35°	43.6
37.5°	30.4
40°	21.8
42.5°	15.9
45°	11.9
47.5°	9.3
50°	6.3
52.5°	4.0
55°	3.0
57.5°	2.3
60°	1.7
62.5°	1.3
65°	1.0



TEST NUMBER: P739936
CATALOG NUMBER: LD4D05D010-EU4DR200210IC9027-4LBS1MW

CANDELA DISTRIBUTION (continued):

	0°
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

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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





67.5°		0.7
70°		0.3

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)