

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: P739924

Luminaire Tested: LD4D05D010-EU4DR200210IC9024-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739924
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-EU4DR200210IC9024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 469.6 lumens
Efficiency: N/A
Efficacy: 62.6 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 (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

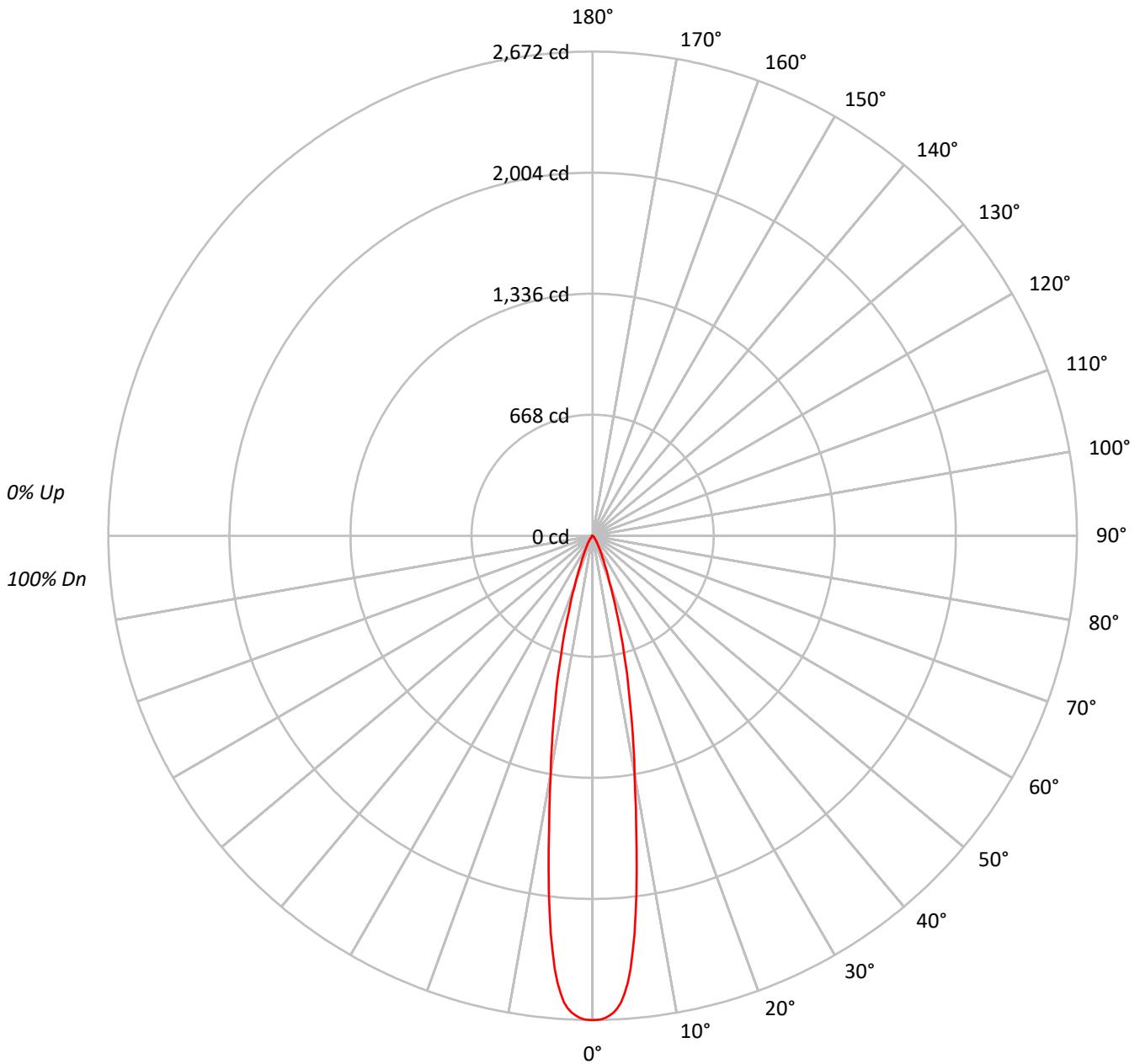


Downlight



TEST NUMBER: P739924
CATALOG NUMBER: LD4D05D010-EU4DR200210IC9024-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P739924

CATALOG NUMBER: LD4D05D010-EU4DR200210IC9024-4LBSQW1B

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	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	97	97	98	97																
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	98	94																
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	95	91																
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	93	89																
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	91	86																
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	88	84																
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	86	82																
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	84	80																
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	82	78																
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	81	76																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	291999
5°	263436
10°	147858
15°	75154
20°	31824
25°	14684
30°	7772
35°	4188
40°	2239
45°	1329
50°	765
55°	400
60°	262
65°	181
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1329 cd/sqm



TEST NUMBER: P739924

CATALOG NUMBER: LD4D05D010-EU4DR200210IC9024-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.3	40.5
10°-20°	187.4	39.9
20°-30°	61.2	13.0
30°-40°	20.8	4.4
40°-50°	7.0	1.5
50°-60°	2.1	0.5
60°-70°	0.7	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°	438.8	93.5
0°-40°	459.7	97.9
0°-60°	468.8	99.8
0°-90°	469.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	469.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2672	
5°	2402	190
15°	664	187
25°	122	61
35°	31	21
45°	9	7
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P739924

CATALOG NUMBER: LD4D05D010-EU4DR200210IC9024-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	2672.5
0.5°	2672.5
1°	2669.1
1.5°	2662.5
2°	2650.3
2.5°	2634.1
3°	2611.3
3.5°	2579.4
4°	2532.1
4.5°	2474.5
5°	2401.9
5.5°	2306.5
6°	2208.6
6.5°	2096.6
7°	1986.9
7.5°	1858.3
8°	1743.6
8.5°	1628.2
9°	1521.6
9.5°	1423.8
10°	1332.7
12.5°	956.9
15°	664.4
17.5°	434.1
20°	273.7
22.5°	177.3
25°	121.8
27.5°	85.7
30°	61.6
32.5°	44.3
35°	31.4
37.5°	21.9
40°	15.7
42.5°	11.4
45°	8.6
47.5°	6.7
50°	4.5
52.5°	2.9
55°	2.1
57.5°	1.7
60°	1.2
62.5°	1.0
65°	0.7



TEST NUMBER: P739924

CATALOG NUMBER: LD4D05D010-EU4DR200210IC9024-4LBSQW1B

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



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°		0.5
70°		0.2

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

Scaled Data Report



(END OF REPORT)