

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: P739950

Luminaire Tested: LD4D05D010-EU4DR200210IC9030-4LBSQW1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739950  
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-EU4DR200210IC9030-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 538.2 lumens  
Efficiency: N/A  
Efficacy: 71.8 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

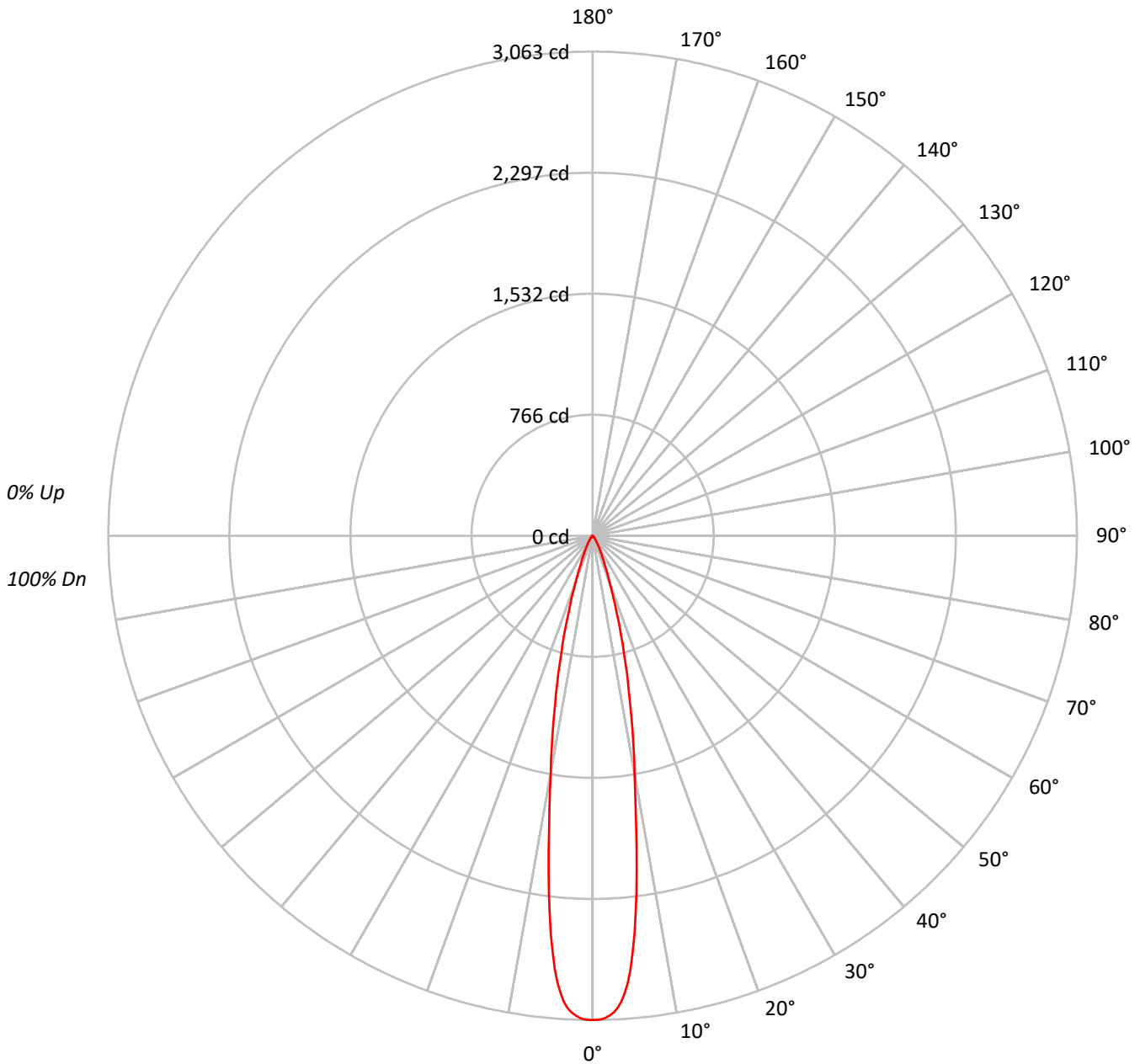


Downlight



TEST NUMBER: P739950  
CATALOG NUMBER: LD4D05D010-EU4DR200210IC9030-4LBSQW1B

### Luminous Intensity Polar Plot





TEST NUMBER: P739950

CATALOG NUMBER: LD4D05D010-EU4DR200210IC9030-4LBSQW1B

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	334688
5°	301955
10°	169470
15°	86148
20°	36475
25°	16842
30°	8907
35°	4802
40°	2567
45°	1514
50°	884
55°	476
60°	306
65°	207
70°	96
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1514 cd/sqm



TEST NUMBER: P739950

CATALOG NUMBER: LD4D05D010-EU4DR200210IC9030-4LBSQW1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.1	40.5
10°-20°	214.8	39.9
20°-30°	70.2	13.0
30°-40°	23.9	4.4
40°-50°	8.0	1.5
50°-60°	2.4	0.5
60°-70°	0.8	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°	503.0	93.5
0°-40°	526.9	97.9
0°-60°	537.3	99.8
0°-90°	538.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	538.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3063	
5°	2753	218
15°	762	215
25°	140	70
35°	36	24
45°	10	8
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P739950

CATALOG NUMBER: LD4D05D010-EU4DR200210IC9030-4LBSQW1B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3063.2
0.5°	3063.2
1°	3059.4
1.5°	3051.8
2°	3037.9
2.5°	3019.3
3°	2993.1
3.5°	2956.6
4°	2902.3
4.5°	2836.3
5°	2753.1
5.5°	2643.7
6°	2531.6
6.5°	2403.1
7°	2277.4
7.5°	2130.1
8°	1998.6
8.5°	1866.3
9°	1744.1
9.5°	1632.0
10°	1527.5
12.5°	1096.8
15°	761.6
17.5°	497.5
20°	313.7
22.5°	203.2
25°	139.7
27.5°	98.2
30°	70.6
32.5°	50.7
35°	36.0
37.5°	25.1
40°	18.0
42.5°	13.1
45°	9.8
47.5°	7.6
50°	5.2
52.5°	3.3
55°	2.5
57.5°	1.9
60°	1.4
62.5°	1.1
65°	0.8



TEST NUMBER: P739950  
CATALOG NUMBER: LD4D05D010-EU4DR200210IC9030-4LBSQW1B

**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°		0.3

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

Scaled Data Report



(END OF REPORT)