

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: P739352

Luminaire Tested: LD4D02D010-EU4DR450210IC9040-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P739352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D02D010-EU4DR450210IC9040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 336.7 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 5.1
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



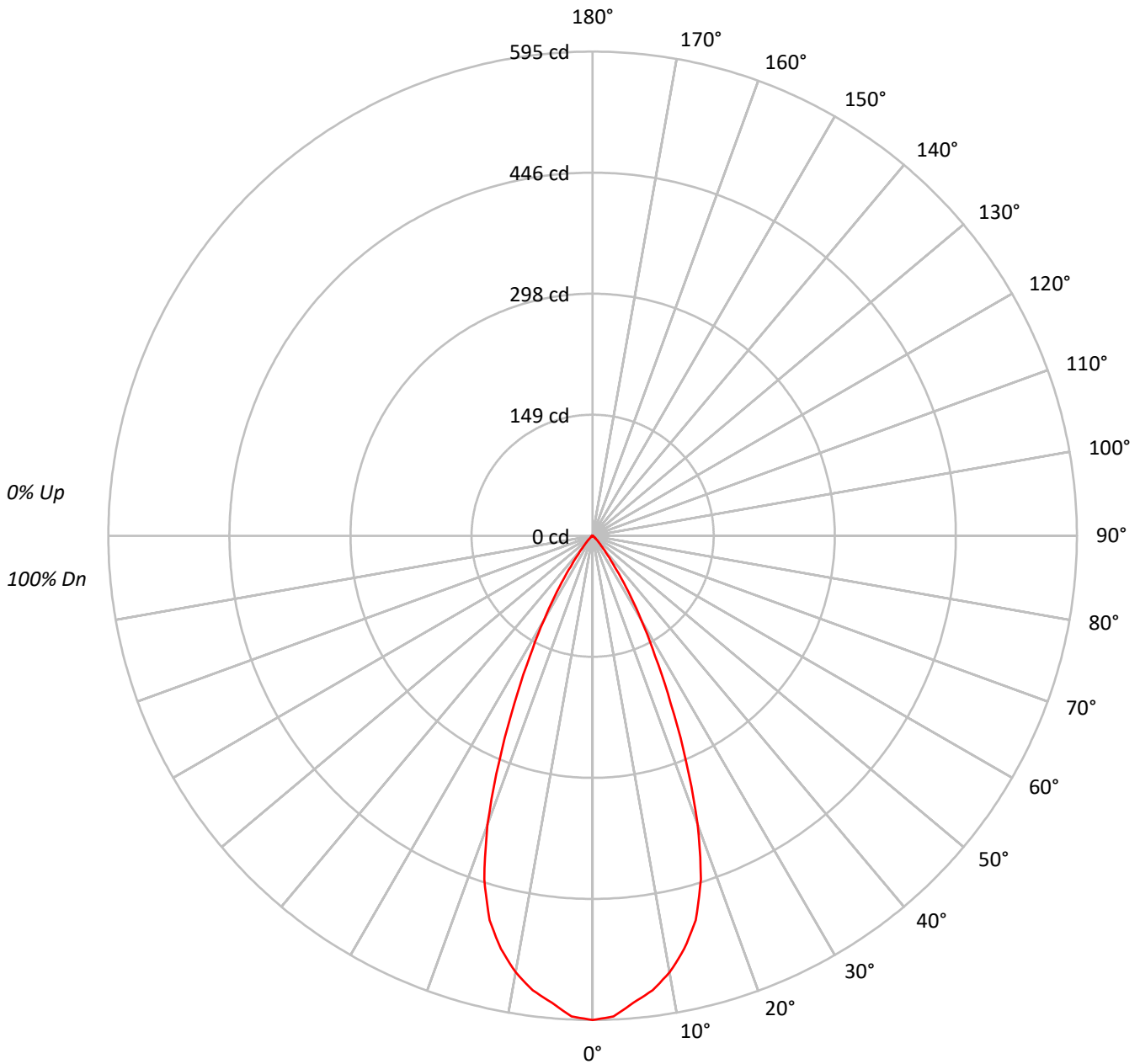
Downlight



TEST NUMBER: P739352

CATALOG NUMBER: LD4D02D010-EU4DR450210IC9040-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P739352
 CATALOG NUMBER: LD4D02D010-EU4DR450210IC9040-4LBSQW1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95			95	
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90			90	
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85			85	
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81			81	
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77			77	
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73			73	
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69			69	
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66			66	
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63			63	
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60			60	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	65021
5°	63164
10°	60444
15°	55313
20°	43881
25°	27390
30°	15102
35°	6776
40°	2667
45°	1252
50°	595
55°	324
60°	153
65°	26
70°	32
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1252 cd/sqm



TEST NUMBER: P739352

CATALOG NUMBER: LD4D02D010-EU4DR450210IC9040-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	16.1
10°-20°	133.2	39.6
20°-30°	105.5	31.3
30°-40°	35.1	10.4
40°-50°	6.9	2.1
50°-60°	1.6	0.5
60°-70°	0.2	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°	292.8	87.0
0°-40°	327.9	97.4
0°-60°	336.4	99.9
0°-90°	336.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	336.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	595	
5°	576	54
15°	489	133
25°	227	105
35°	51	35
45°	8	7
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P739352

CATALOG NUMBER: LD4D02D010-EU4DR450210IC9040-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	595.1
2.5°	591.2
5°	575.9
7.5°	563.4
10°	544.8
12.5°	520.0
15°	489.0
17.5°	442.5
20°	377.4
22.5°	299.9
25°	227.2
27.5°	166.4
30°	119.7
32.5°	81.4
35°	50.8
37.5°	30.1
40°	18.7
42.5°	12.3
45°	8.1
47.5°	5.2
50°	3.5
52.5°	2.3
55°	1.7
57.5°	1.1
60°	0.7
62.5°	0.4
65°	0.1
67.5°	0.1
70°	0.1
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



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

Scaled Data Report



(END OF REPORT)