

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: P739586

Luminaire Tested: LD4D02D010-EU4DR600210IC9040-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P739586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D02D010-EU4DR600210IC9040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 302.6 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
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



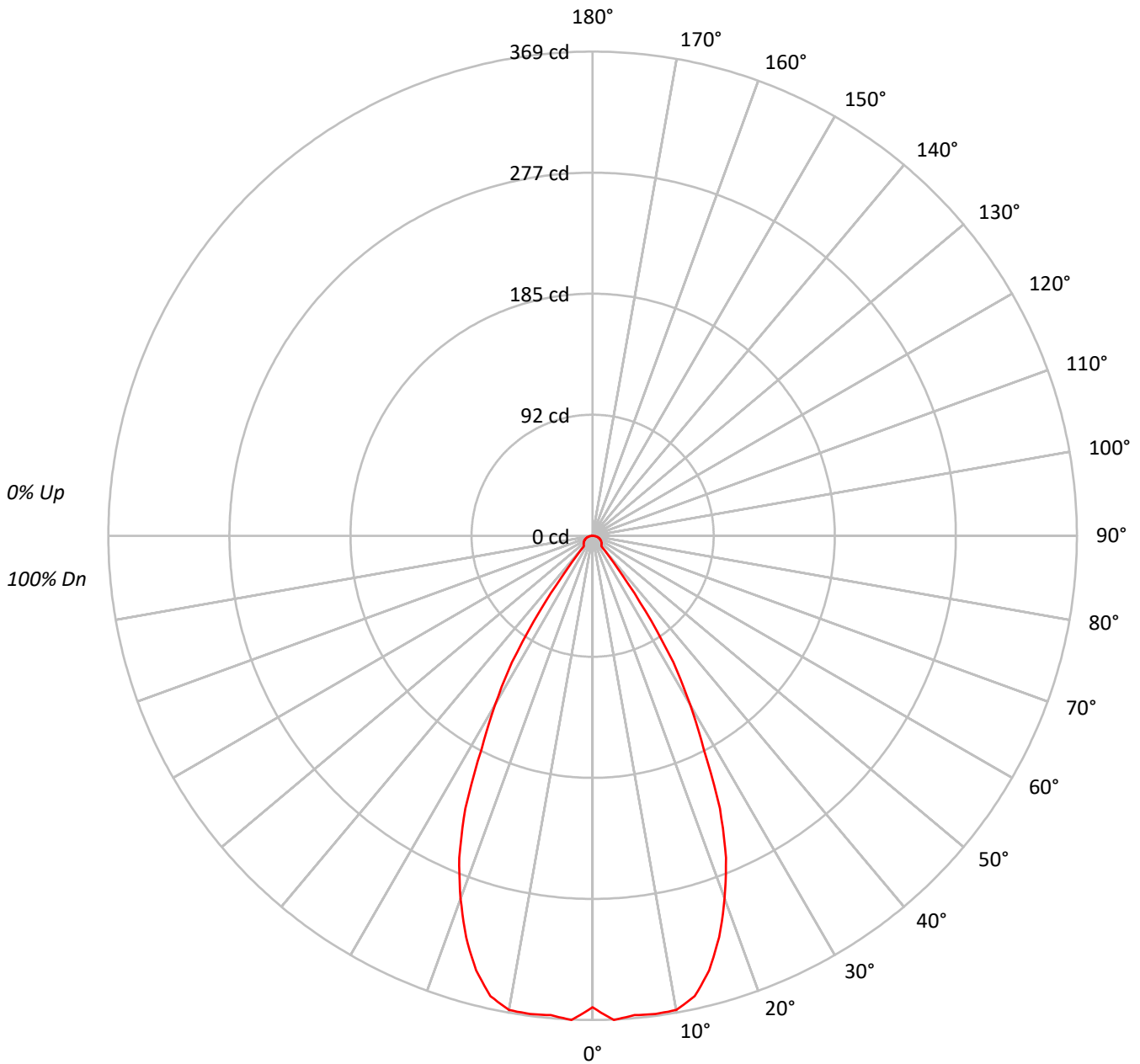
Downlight



TEST NUMBER: P739586

CATALOG NUMBER: LD4D02D010-EU4DR600210IC9040-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P739586

CATALOG NUMBER: LD4D02D010-EU4DR600210IC9040-4LBSQW1B

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																			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	39268
5°	40219
10°	40717
15°	38787
20°	34196
25°	27656
30°	18710
35°	9377
40°	1526
45°	1483
50°	1513
55°	1543
60°	1595
65°	1603
70°	1661
75°	1689
80°	1636
85°	1379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 1689 cd/sqm



TEST NUMBER: P739586

CATALOG NUMBER: LD4D02D010-EU4DR600210IC9040-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	11.6
10°-20°	94.8	31.3
20°-30°	102.0	33.7
30°-40°	44.4	14.7
40°-50°	7.4	2.5
50°-60°	7.3	2.4
60°-70°	6.2	2.0
70°-80°	4.2	1.4
80°-90°	1.3	0.4
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°	231.9	76.6
0°-40°	276.3	91.3
0°-60°	291.0	96.2
0°-90°	302.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	302.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	359	
5°	367	35
15°	343	95
25°	229	102
35°	70	44
45°	10	7
55°	8	7
65°	6	6
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P739586

CATALOG NUMBER: LD4D02D010-EU4DR600210IC9040-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

0°	
0°	359.4
2.5°	369.4
5°	366.7
7.5°	367.6
10°	367.0
12.5°	359.4
15°	342.9
17.5°	320.7
20°	294.1
22.5°	265.6
25°	229.4
27.5°	183.5
30°	148.3
32.5°	114.3
35°	70.3
37.5°	30.1
40°	10.7
42.5°	9.8
45°	9.6
47.5°	9.3
50°	8.9
52.5°	8.5
55°	8.1
57.5°	7.7
60°	7.3
62.5°	6.8
65°	6.2
67.5°	5.7
70°	5.2
72.5°	4.6
75°	4.0
77.5°	3.3
80°	2.6
82.5°	1.8
85°	1.1
87.5°	0.4
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)