

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: P741606

Luminaire Tested: LD4D08D010-EU4DR600210IC9040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P741606
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: LD4D08D010-EU4DR600210IC9040-4LBDP1B
Description: 4 INCH ROUND 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: 640.4 lumens
Efficiency: N/A
Efficacy: 72.0 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): 8.9
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



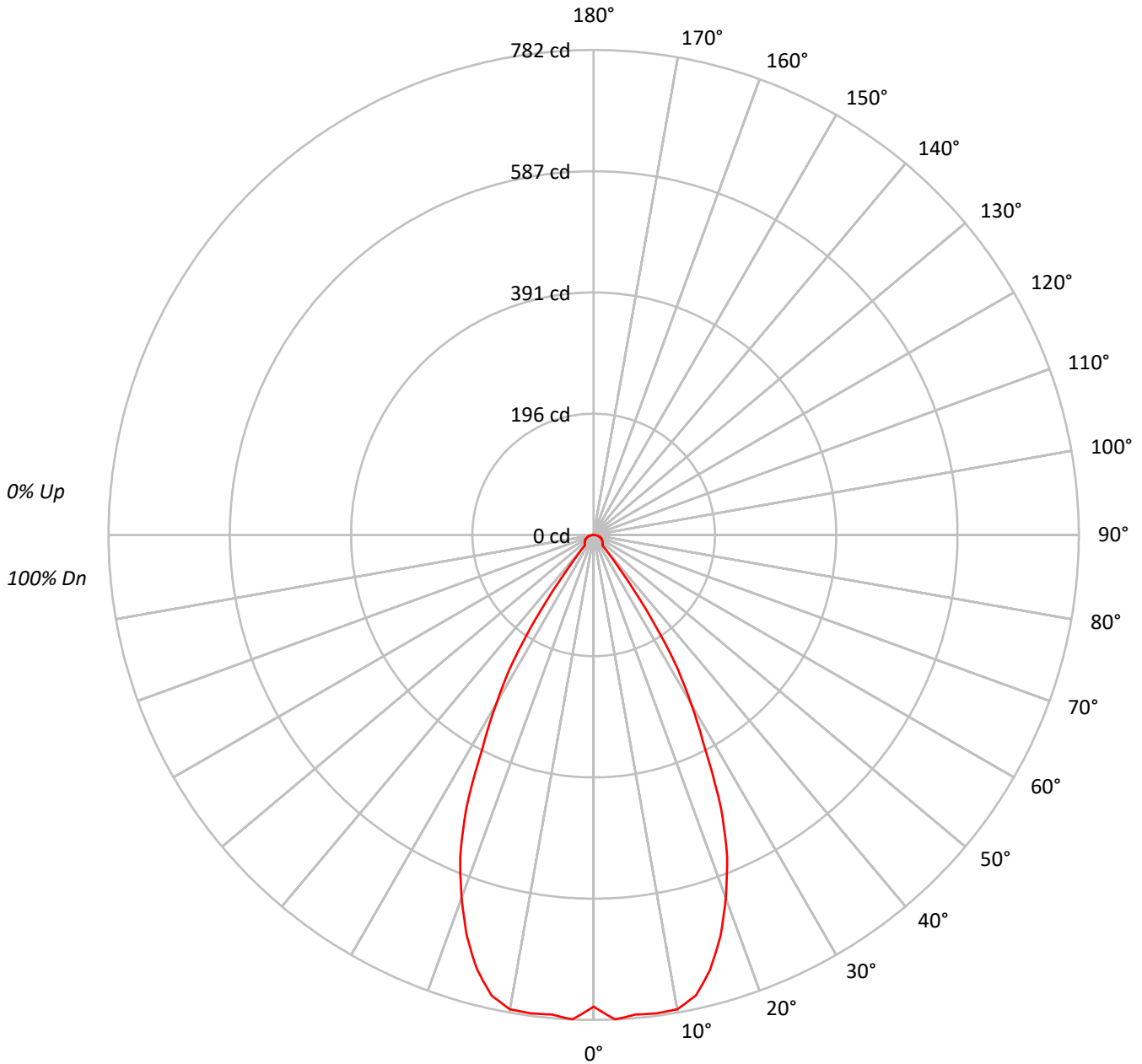
Downlight



TEST NUMBER: P741606

CATALOG NUMBER: LD4D08D010-EU4DR600210IC9040-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P741606

CATALOG NUMBER: LD4D08D010-EU4DR600210IC9040-4LBDP1B

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			
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°	83104
5°	85143
10°	86172
15°	82099
20°	72380
25°	58542
30°	39603
35°	19847
40°	3223
45°	3152
50°	3213
55°	3257
60°	3365
65°	3438
70°	3514
75°	3546
80°	3398
85°	2883

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 3546 cd/sqm



TEST NUMBER: P741606

CATALOG NUMBER: LD4D08D010-EU4DR600210IC9040-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	11.6
10°-20°	200.7	31.3
20°-30°	216.0	33.7
30°-40°	93.9	14.7
40°-50°	15.8	2.5
50°-60°	15.3	2.4
60°-70°	13.1	2.0
70°-80°	8.8	1.4
80°-90°	2.6	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°	490.9	76.7
0°-40°	584.8	91.3
0°-60°	615.9	96.2
0°-90°	640.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	640.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	761	
5°	776	74
15°	726	201
25°	486	216
35°	149	94
45°	20	16
55°	17	15
65°	13	13
75°	8	9
85°	2	3
90°	0	



TEST NUMBER: P741606

CATALOG NUMBER: LD4D08D010-EU4DR600210IC9040-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	760.6
2.5°	782.0
5°	776.3
7.5°	778.1
10°	776.7
12.5°	760.7
15°	725.8
17.5°	678.8
20°	622.5
22.5°	562.2
25°	485.6
27.5°	388.4
30°	313.9
32.5°	241.9
35°	148.8
37.5°	63.7
40°	22.6
42.5°	20.8
45°	20.4
47.5°	19.7
50°	18.9
52.5°	18.0
55°	17.1
57.5°	16.2
60°	15.4
62.5°	14.4
65°	13.3
67.5°	12.1
70°	11.0
72.5°	9.7
75°	8.4
77.5°	6.9
80°	5.4
82.5°	3.8
85°	2.3
87.5°	0.8
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)