

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: P741609

Luminaire Tested: LD4D08D010-EU4DR600210IC9040-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P741609
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-EU4DR600210IC9040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 736.5 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.84
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



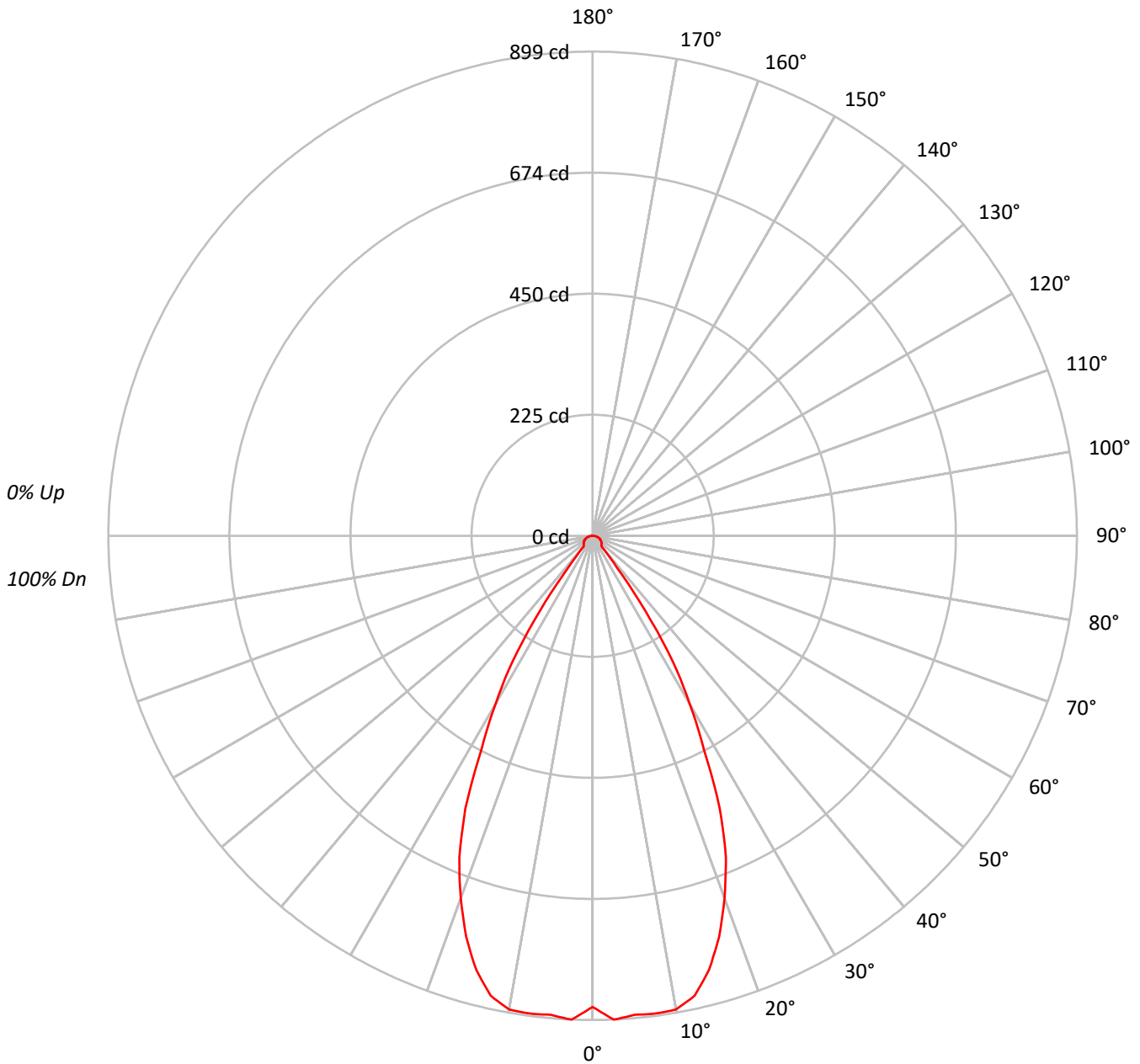
Downlight



TEST NUMBER: P741609

CATALOG NUMBER: LD4D08D010-EU4DR600210IC9040-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P741609

CATALOG NUMBER: LD4D08D010-EU4DR600210IC9040-4LBDP1MW

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°	95570
5°	97921
10°	99097
15°	94406
20°	83240
25°	67330
30°	45545
35°	22822
40°	3708
45°	3616
50°	3689
55°	3753
60°	3846
65°	3930
70°	4057
75°	4095
80°	3901
85°	3259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 4095 cd/sqm



TEST NUMBER: P741609

CATALOG NUMBER: LD4D08D010-EU4DR600210IC9040-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	11.6
10°-20°	230.9	31.3
20°-30°	248.4	33.7
30°-40°	108.0	14.7
40°-50°	18.1	2.5
50°-60°	17.6	2.4
60°-70°	15.1	2.0
70°-80°	10.1	1.4
80°-90°	3.0	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°	564.6	76.7
0°-40°	672.6	91.3
0°-60°	708.3	96.2
0°-90°	736.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	736.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	875	
5°	893	85
15°	835	231
25°	558	248
35°	171	108
45°	23	18
55°	20	18
65°	15	15
75°	10	10
85°	3	3
90°	0	



TEST NUMBER: P741609

CATALOG NUMBER: LD4D08D010-EU4DR600210IC9040-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	874.7
2.5°	899.3
5°	892.8
7.5°	894.8
10°	893.2
12.5°	874.8
15°	834.6
17.5°	780.6
20°	715.9
22.5°	646.6
25°	558.5
27.5°	446.7
30°	361.0
32.5°	278.2
35°	171.1
37.5°	73.2
40°	26.0
42.5°	23.9
45°	23.4
47.5°	22.6
50°	21.7
52.5°	20.7
55°	19.7
57.5°	18.7
60°	17.6
62.5°	16.5
65°	15.2
67.5°	14.0
70°	12.7
72.5°	11.2
75°	9.7
77.5°	8.0
80°	6.2
82.5°	4.4
85°	2.6
87.5°	0.9
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)