

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: P742633

Luminaire Tested: LD4D10D010-EU4DR600210IC9050-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P742633
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: LD4D10D010-EU4DR600210IC9050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 846.0 lumens
Efficiency: N/A
Efficacy: 72.3 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): 11.7
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

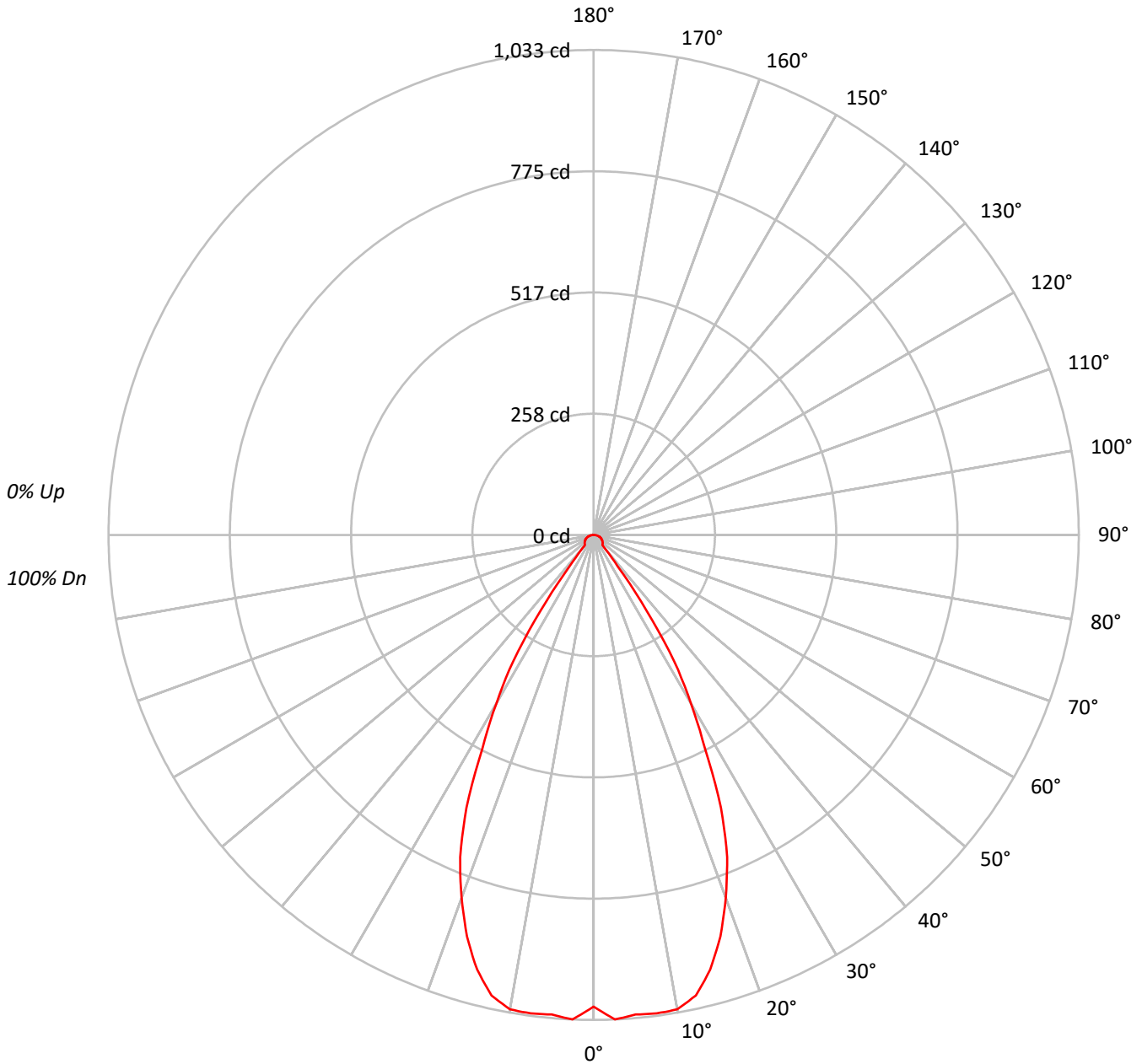


Downlight



TEST NUMBER: P742633
CATALOG NUMBER: LD4D10D010-EU4DR600210IC9050-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P742633

CATALOG NUMBER: LD4D10D010-EU4DR600210IC9050-4LBDP1B

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	63	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	109785
5°	112486
10°	113853
15°	108455
20°	95623
25°	77337
30°	52307
35°	26210
40°	4250
45°	4157
50°	4249
55°	4305
60°	4436
65°	4524
70°	4632
75°	4686
80°	4530
85°	3761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 4686 cd/sqm



TEST NUMBER: P742633

CATALOG NUMBER: LD4D10D010-EU4DR600210IC9050-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	11.6
10°-20°	265.2	31.3
20°-30°	285.3	33.7
30°-40°	124.0	14.7
40°-50°	20.8	2.5
50°-60°	20.2	2.4
60°-70°	17.3	2.0
70°-80°	11.6	1.4
80°-90°	3.5	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°	648.6	76.7
0°-40°	772.6	91.3
0°-60°	813.6	96.2
0°-90°	846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	846.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1005	
5°	1026	98
15°	959	265
25°	642	285
35°	196	124
45°	27	21
55°	23	20
65°	18	17
75°	11	12
85°	3	3
90°	0	



TEST NUMBER: P742633

CATALOG NUMBER: LD4D10D010-EU4DR600210IC9050-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	1004.8
2.5°	1033.1
5°	1025.6
7.5°	1028.0
10°	1026.2
12.5°	1005.0
15°	958.8
17.5°	896.8
20°	822.4
22.5°	742.8
25°	641.5
27.5°	513.1
30°	414.6
32.5°	319.6
35°	196.5
37.5°	84.1
40°	29.8
42.5°	27.4
45°	26.9
47.5°	26.0
50°	25.0
52.5°	23.8
55°	22.6
57.5°	21.4
60°	20.3
62.5°	19.0
65°	17.5
67.5°	16.1
70°	14.5
72.5°	12.8
75°	11.1
77.5°	9.2
80°	7.2
82.5°	5.1
85°	3.0
87.5°	1.0
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)