

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: P746618

Luminaire Tested: LD4D30D010-EU4DR7020359030-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P746618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR7020359030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1572.9 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 29
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

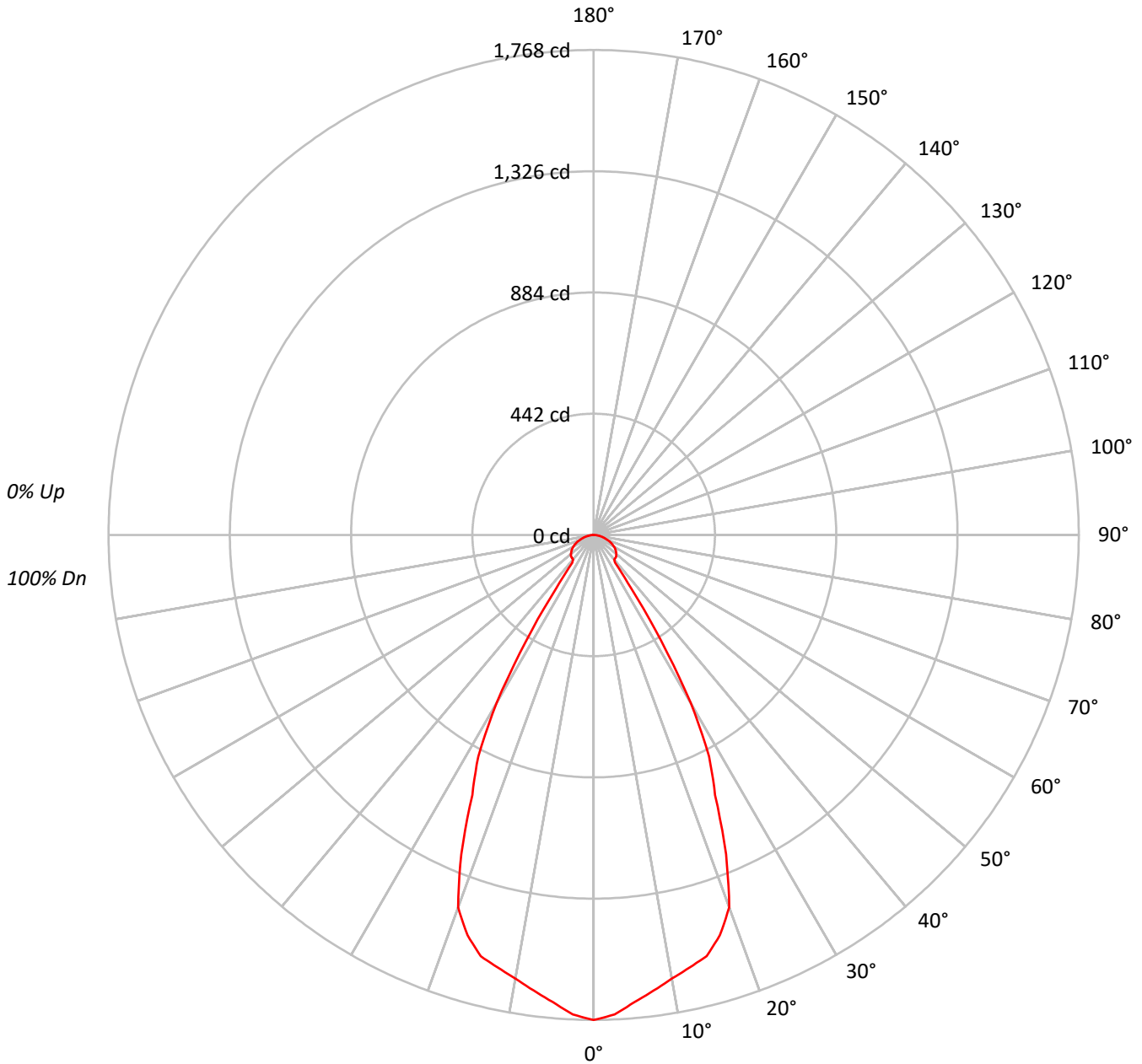


Downlight



TEST NUMBER: P746618
CATALOG NUMBER: LD4D30D010-EU4DR7020359030-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P746618

CATALOG NUMBER: LD4D30D010-EU4DR7020359030-4LBDP1B

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	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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																											
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																											
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																											
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																											
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65																											
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																											
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																											
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																											
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																											
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	193217
5°	187473
10°	182240
15°	179864
20°	167945
25°	126174
30°	89198
35°	31598
40°	16616
45°	17692
50°	18324
55°	18668
60°	18771
65°	18382
70°	17347
75°	16084
80°	14283
85°	11533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 18790 cd/sqm



TEST NUMBER: P746618

CATALOG NUMBER: LD4D30D010-EU4DR7020359030-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	10.3
10°-20°	442.2	28.1
20°-30°	487.0	31.0
30°-40°	186.1	11.8
40°-50°	87.9	5.6
50°-60°	87.3	5.6
60°-70°	69.9	4.4
70°-80°	40.2	2.6
80°-90°	10.9	0.7
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°	1090.5	69.3
0°-40°	1276.6	81.2
0°-60°	1451.8	92.3
0°-90°	1572.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1572.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1768	
5°	1709	161
15°	1590	442
25°	1047	487
35°	237	186
45°	114	88
55°	98	87
65°	71	70
75°	38	40
85°	9	11
90°	0	



TEST NUMBER: P746618

CATALOG NUMBER: LD4D30D010-EU4DR7020359030-4LBDP1B

CANDELA DISTRIBUTION (FULL):

0°	
0°	1768.4
2.5°	1749.9
5°	1709.3
7.5°	1675.4
10°	1642.6
12.5°	1614.9
15°	1590.1
17.5°	1529.8
20°	1444.4
22.5°	1260.2
25°	1046.6
27.5°	911.0
30°	707.0
32.5°	456.6
35°	236.9
37.5°	127.9
40°	116.5
42.5°	115.6
45°	114.5
47.5°	112.0
50°	107.8
52.5°	103.0
55°	98.0
57.5°	92.4
60°	85.9
62.5°	78.7
65°	71.1
67.5°	62.7
70°	54.3
72.5°	45.9
75°	38.1
77.5°	30.0
80°	22.7
82.5°	16.0
85°	9.2
87.5°	3.7
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)