

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: P746524

Luminaire Tested: LD4D30D010-EU4DR6520359027-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P746524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR6520359027-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2282.4 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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

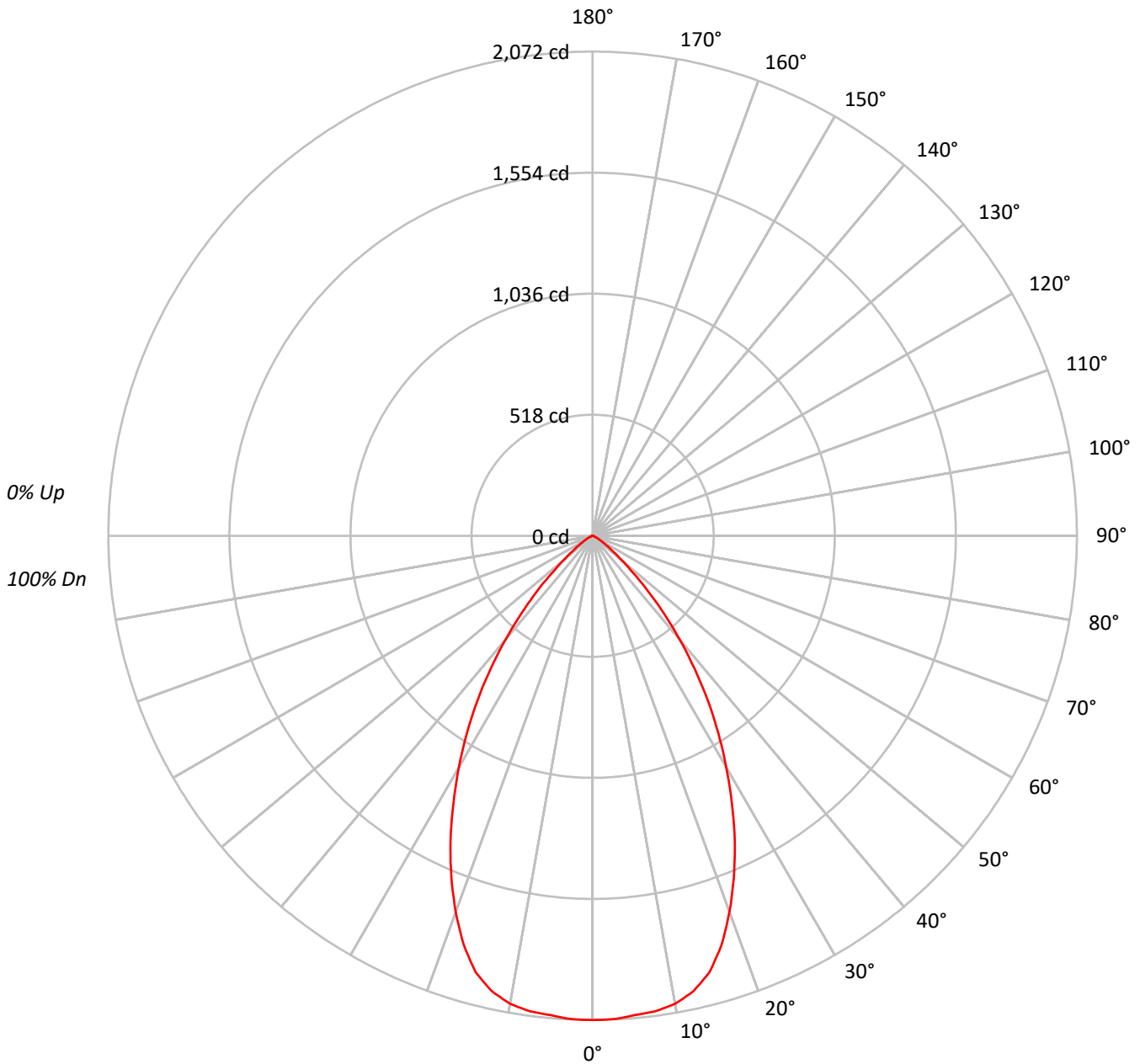


Downlight



TEST NUMBER: P746524
CATALOG NUMBER: LD4D30D010-EU4DR6520359027-4LBCSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P746524

CATALOG NUMBER: LD4D30D010-EU4DR6520359027-4LBCSSQMB

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	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93																			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85																			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																			
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61																			
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56																			
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	121036
5°	120725
10°	120626
15°	116907
20°	106429
25°	92744
30°	77137
35°	61117
40°	44113
45°	27868
50°	14529
55°	7718
60°	4053
65°	2239
70°	939
75°	1038
80°	706
85°	603

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27868 cd/sqm



TEST NUMBER: P746524

CATALOG NUMBER: LD4D30D010-EU4DR6520359027-4LBCSSQMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.0	8.6
10°-20°	536.7	23.5
20°-30°	656.0	28.7
30°-40°	532.2	23.3
40°-50°	265.2	11.6
50°-60°	74.0	3.2
60°-70°	16.9	0.7
70°-80°	4.4	0.2
80°-90°	1.1	0.0
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°	1388.6	60.8
0°-40°	1920.9	84.2
0°-60°	2260.0	99.0
0°-90°	2282.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2072	
5°	2059	196
15°	1934	537
25°	1439	656
35°	857	532
45°	337	265
55°	76	74
65°	16	17
75°	5	4
85°	1	1
90°	0	



TEST NUMBER: P746524

CATALOG NUMBER: LD4D30D010-EU4DR6520359027-4LBCSSQMB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2072.4
2.5°	2070.8
5°	2059.2
7.5°	2052.5
10°	2034.0
12.5°	1996.2
15°	1933.5
17.5°	1835.4
20°	1712.4
22.5°	1579.6
25°	1439.2
27.5°	1289.1
30°	1143.8
32.5°	1000.4
35°	857.2
37.5°	714.4
40°	578.6
42.5°	451.3
45°	337.4
47.5°	235.1
50°	159.9
52.5°	110.2
55°	75.8
57.5°	51.2
60°	34.7
62.5°	24.1
65°	16.2
67.5°	8.3
70°	5.5
72.5°	5.2
75°	4.6
77.5°	3.0
80°	2.1
82.5°	1.5
85°	0.9
87.5°	0.6
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)