

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: P752376

Luminaire Tested: LD4D70BD010-EU4DR4070959027-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR4070959027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6507.2 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

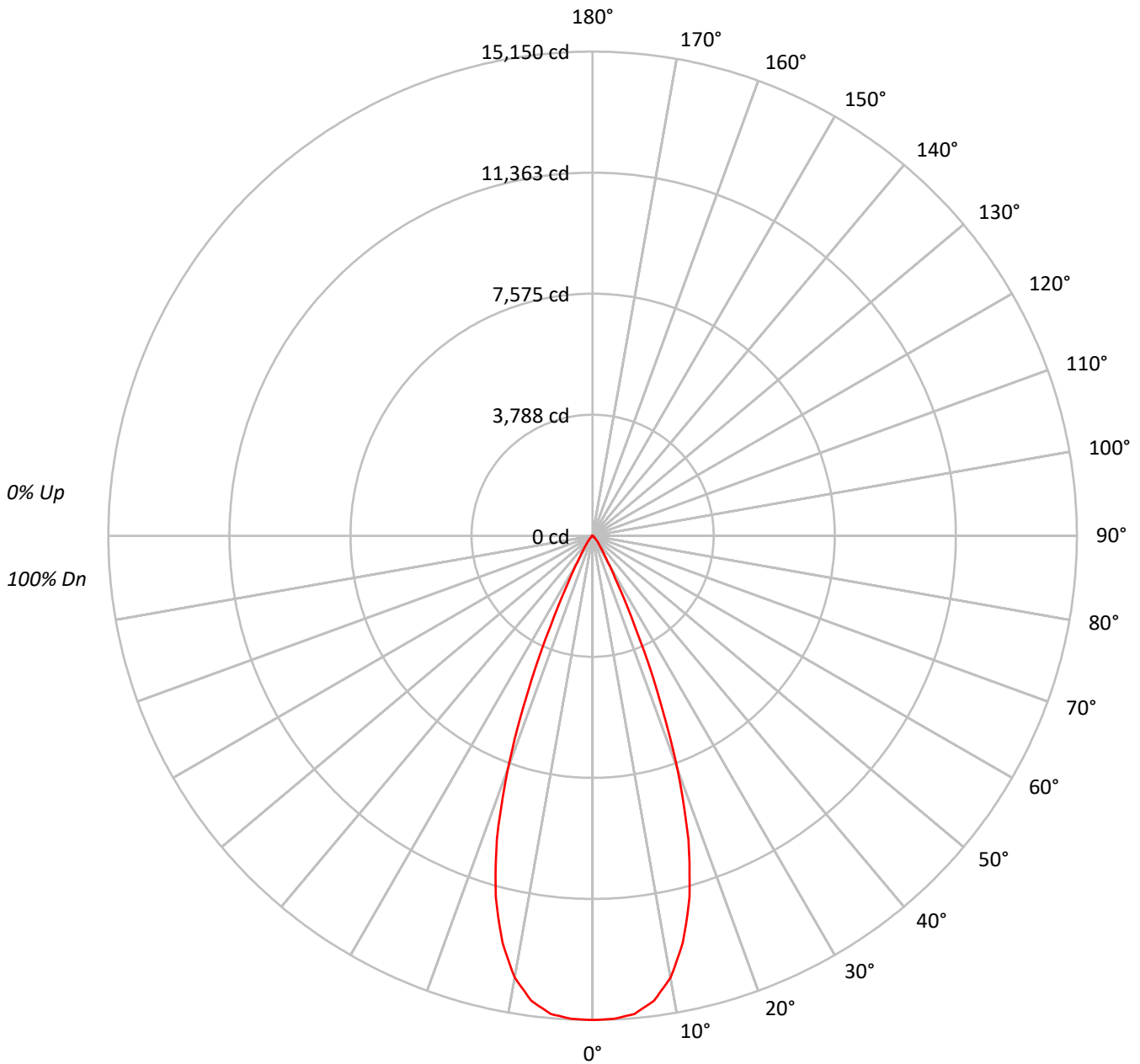
Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P752376

CATALOG NUMBER: LD4D70BD010-EU4DR4070959027-4LBCSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P752376

CATALOG NUMBER: LD4D70BD010-EU4DR4070959027-4LBCSSQMW

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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92																			
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88																			
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84																			
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81																			
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77																			
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74																			
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72																			
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69																			
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1655333
5°	1647288
10°	1557053
15°	1323695
20°	902184
25°	376436
30°	118367
35°	55007
40°	30423
45°	13953
50°	6765
55°	3715
60°	1945
65°	698
70°	288
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13953 cd/sqm



TEST NUMBER: P752376

CATALOG NUMBER: LD4D70BD010-EU4DR4070959027-4LBCSSQMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1402.4	21.6
10°-20°	3141.8	48.3
20°-30°	1572.7	24.2
30°-40°	288.3	4.4
40°-50°	79.5	1.2
50°-60°	18.7	0.3
60°-70°	3.6	0.1
70°-80°	0.1	0.0
80°-90°	0.0	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°	6116.9	94.0
0°-40°	6405.2	98.4
0°-60°	6503.4	99.9
0°-90°	6507.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6507.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15150	
5°	15019	###
15°	11702	3142
25°	3122	1573
35°	412	288
45°	90	80
55°	20	19
65°	3	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P752376

CATALOG NUMBER: LD4D70BD010-EU4DR4070959027-4LBCSSQMW

CANDELA DISTRIBUTION (FULL):

	0°
0°	15150.3
2.5°	15128.2
5°	15019.3
7.5°	14672.4
10°	14034.3
12.5°	13039.5
15°	11702.2
17.5°	9963.0
20°	7759.2
22.5°	5290.0
25°	3122.5
27.5°	1650.6
30°	938.2
32.5°	606.3
35°	412.4
37.5°	294.7
40°	213.3
42.5°	146.0
45°	90.3
47.5°	57.5
50°	39.8
52.5°	28.3
55°	19.5
57.5°	12.4
60°	8.9
62.5°	5.3
65°	2.7
67.5°	1.8
70°	0.9
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)