

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: P754378

Luminaire Tested: LD4D80BD010-EU4DR6570959050-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P754378
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: LD4D80BD010-EU4DR6570959050-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

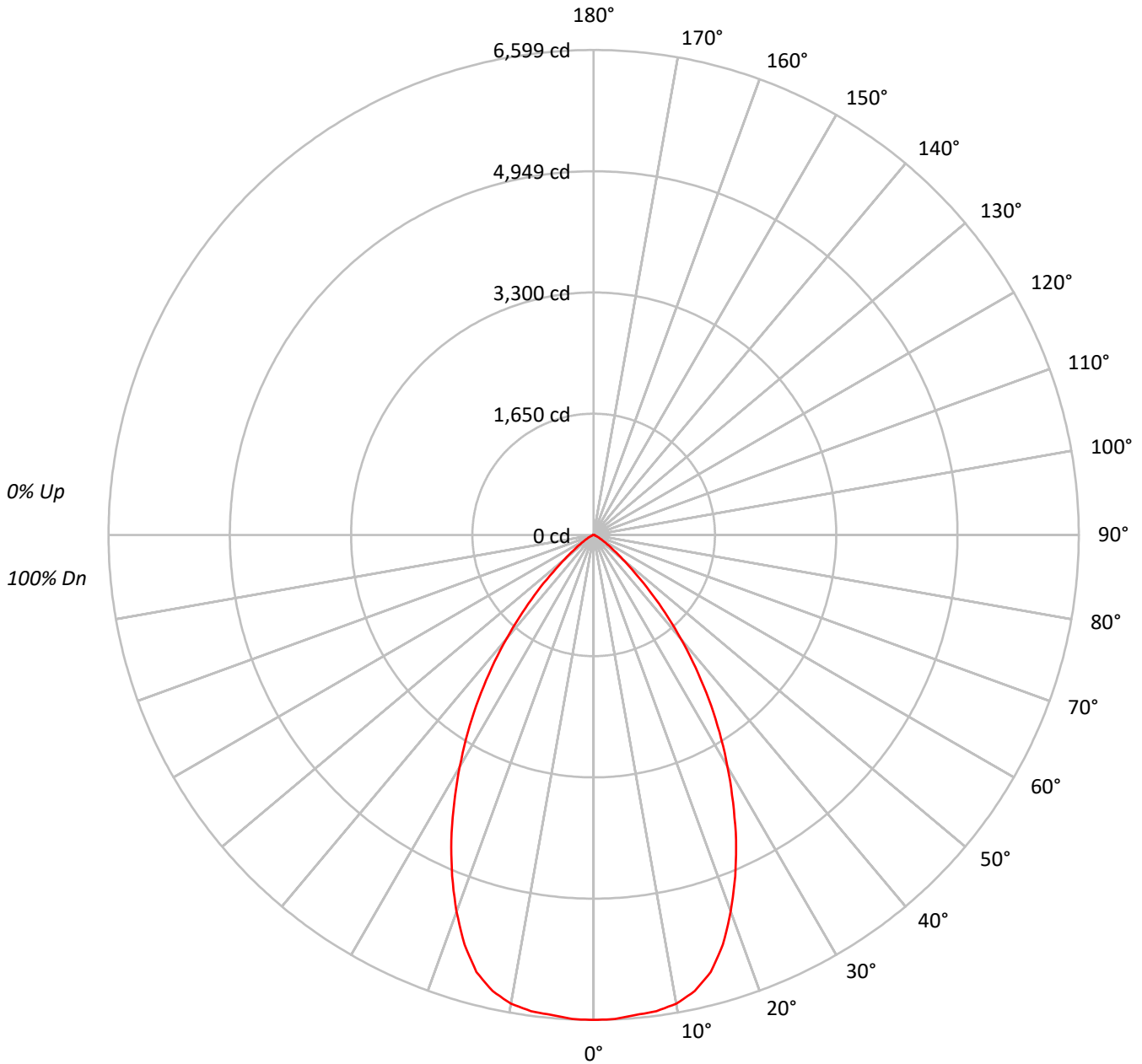
Lumens per Lamp: N/A
Luminaire Lumens: 7267.6 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
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: P754378
CATALOG NUMBER: LD4D80BD010-EU4DR6570959050-4LBCSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P754378

CATALOG NUMBER: LD4D80BD010-EU4DR6570959050-4LBCSSQMW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	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°	385395
5°	384423
10°	384094
15°	372253
20°	338891
25°	295323
30°	245626
35°	194622
40°	140466
45°	88741
50°	46257
55°	24591
60°	12907
65°	7103
70°	2988
75°	3272
80°	2287
85°	1943

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 88741 cd/sqm



TEST NUMBER: P754378

CATALOG NUMBER: LD4D80BD010-EU4DR6570959050-4LBCSSQMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.0	8.6
10°-20°	1708.9	23.5
20°-30°	2088.8	28.7
30°-40°	1694.8	23.3
40°-50°	844.5	11.6
50°-60°	235.6	3.2
60°-70°	53.5	0.7
70°-80°	13.9	0.2
80°-90°	3.5	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°	4421.7	60.8
0°-40°	6116.5	84.2
0°-60°	7196.6	99.0
0°-90°	7267.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7267.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6599	
5°	6557	624
15°	6157	1709
25°	4583	2089
35°	2730	1695
45°	1074	845
55°	242	236
65°	51	54
75°	14	14
85°	3	4
90°	0	



TEST NUMBER: P754378

CATALOG NUMBER: LD4D80BD010-EU4DR6570959050-4LBCSSQMW

CANDELA DISTRIBUTION (FULL):

	0°
0°	6598.8
2.5°	6594.0
5°	6557.1
7.5°	6535.8
10°	6476.6
12.5°	6356.4
15°	6156.6
17.5°	5844.4
20°	5452.6
22.5°	5029.8
25°	4582.8
27.5°	4104.8
30°	3642.2
32.5°	3185.5
35°	2729.7
37.5°	2274.9
40°	1842.4
42.5°	1437.1
45°	1074.4
47.5°	748.6
50°	509.1
52.5°	351.0
55°	241.5
57.5°	162.9
60°	110.5
62.5°	76.6
65°	51.4
67.5°	26.2
70°	17.5
72.5°	16.5
75°	14.5
77.5°	9.7
80°	6.8
82.5°	4.8
85°	2.9
87.5°	1.9
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)