

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: P755663

Luminaire Tested: LD4D90BD010-EU4DR5070959030-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR5070959030-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8609.3 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

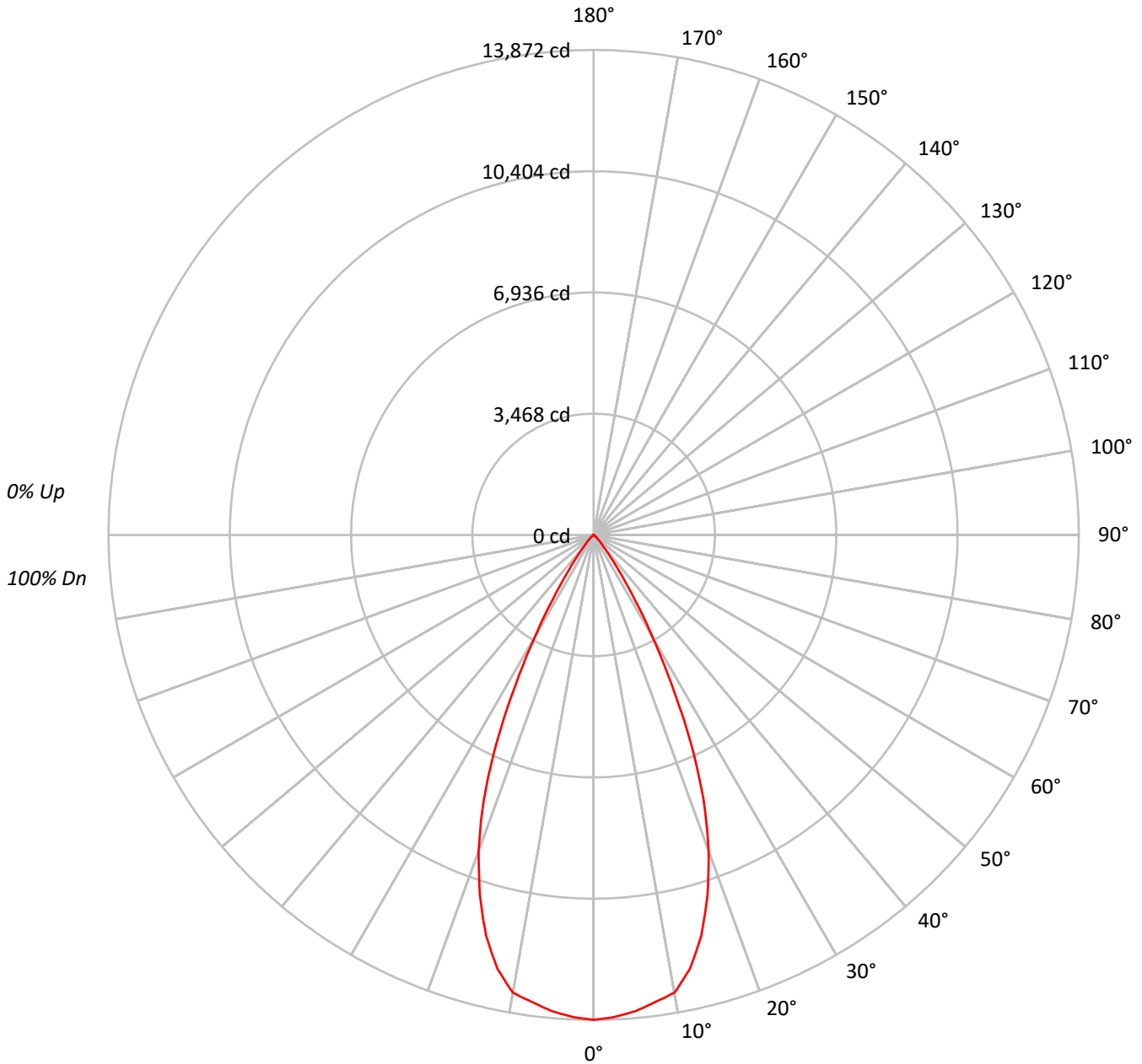
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P755663

CATALOG NUMBER: LD4D90BD010-EU4DR5070959030-4LBCSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P755663

CATALOG NUMBER: LD4D90BD010-EU4DR5070959030-4LBCSSQMB

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95		
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90		
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85		
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80		
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76		
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72		
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69		
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65		
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62		
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1515643
5°	1499749
10°	1475053
15°	1343151
20°	1117661
25°	793366
30°	419935
35°	171130
40°	63556
45°	29096
50°	11933
55°	6229
60°	3059
65°	905
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29096 cd/sqm



TEST NUMBER: P755663

CATALOG NUMBER: LD4D90BD010-EU4DR5070959030-4LBCSSQMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1292.5	15.0
10°-20°	3266.4	37.9
20°-30°	2934.1	34.1
30°-40°	918.6	10.7
40°-50°	160.8	1.9
50°-60°	32.1	0.4
60°-70°	4.8	0.1
70°-80°	0.0	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°	7492.9	87.0
0°-40°	8411.5	97.7
0°-60°	8604.5	99.9
0°-90°	8609.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8609.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13872	
5°	13674	###
15°	11874	3266
25°	6581	2934
35°	1283	919
45°	188	161
55°	33	32
65°	4	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P755663

CATALOG NUMBER: LD4D90BD010-EU4DR5070959030-4LBCSSQMB

CANDELA DISTRIBUTION (FULL):

	0°
0°	13871.8
2.5°	13802.8
5°	13674.1
7.5°	13477.6
10°	13295.2
12.5°	12710.4
15°	11874.2
17.5°	10812.3
20°	9612.4
22.5°	8224.1
25°	6580.9
27.5°	4838.3
30°	3328.5
32.5°	2167.1
35°	1283.0
37.5°	736.8
40°	445.6
42.5°	290.0
45°	188.3
47.5°	114.6
50°	70.2
52.5°	48.0
55°	32.7
57.5°	22.2
60°	14.0
62.5°	8.2
65°	3.5
67.5°	1.2
70°	0.0
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)