

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: P755804

Luminaire Tested: LD4D90BD010-EU4DR6070959024-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR6070959024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

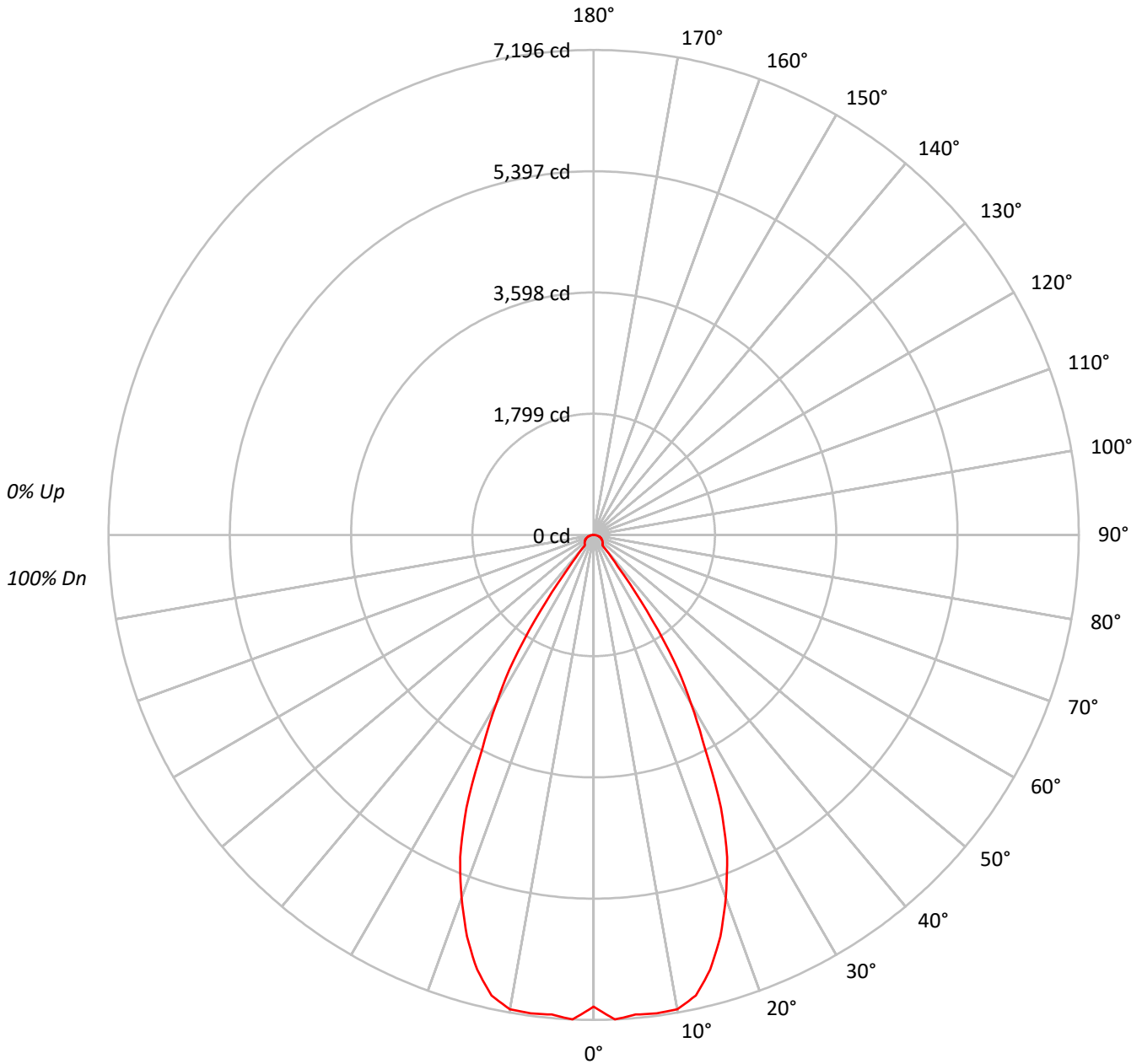
Lumens per Lamp: N/A
Luminaire Lumens: 5893.8 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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: P755804
CATALOG NUMBER: LD4D90BD010-EU4DR6070959024-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P755804

CATALOG NUMBER: LD4D90BD010-EU4DR6070959024-4LBSQW1B

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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	764771
5°	783584
10°	793044
15°	755484
20°	666104
25°	538764
30°	364423
35°	182614
40°	29624
45°	29003
50°	29576
55°	30021
60°	30855
65°	31567
70°	32297
75°	32674
80°	31523
85°	26326

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 32674 cd/sqm



TEST NUMBER: P755804

CATALOG NUMBER: LD4D90BD010-EU4DR6070959024-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.8	11.6
10°-20°	1847.4	31.3
20°-30°	1987.7	33.7
30°-40°	864.0	14.7
40°-50°	145.1	2.5
50°-60°	141.1	2.4
60°-70°	120.7	2.0
70°-80°	80.8	1.4
80°-90°	24.2	0.4
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°	4517.9	76.7
0°-40°	5381.9	91.3
0°-60°	5668.1	96.2
0°-90°	5893.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5893.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7000	
5°	7144	683
15°	6679	1847
25°	4469	1988
35°	1369	864
45°	188	145
55°	158	141
65°	122	121
75°	77	81
85°	21	24
90°	0	



TEST NUMBER: P755804

CATALOG NUMBER: LD4D90BD010-EU4DR6070959024-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	6999.5
2.5°	7196.3
5°	7144.4
7.5°	7160.8
10°	7148.0
12.5°	7000.4
15°	6678.9
17.5°	6247.1
20°	5728.8
22.5°	5174.0
25°	4469.0
27.5°	3574.5
30°	2888.5
32.5°	2226.3
35°	1369.1
37.5°	585.7
40°	207.7
42.5°	191.3
45°	187.7
47.5°	181.3
50°	174.0
52.5°	165.8
55°	157.6
57.5°	149.4
60°	141.2
62.5°	132.1
65°	122.1
67.5°	112.0
70°	101.1
72.5°	89.3
75°	77.4
77.5°	63.8
80°	50.1
82.5°	35.5
85°	21.0
87.5°	7.3
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)