

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: P755844

Luminaire Tested: LD4D90BD010-EU4DR6070959035-4LBSQW1MW

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755844  
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-EU4DR6070959035-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7829.5 lumens  
Efficiency: N/A  
Efficacy: 79.2 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

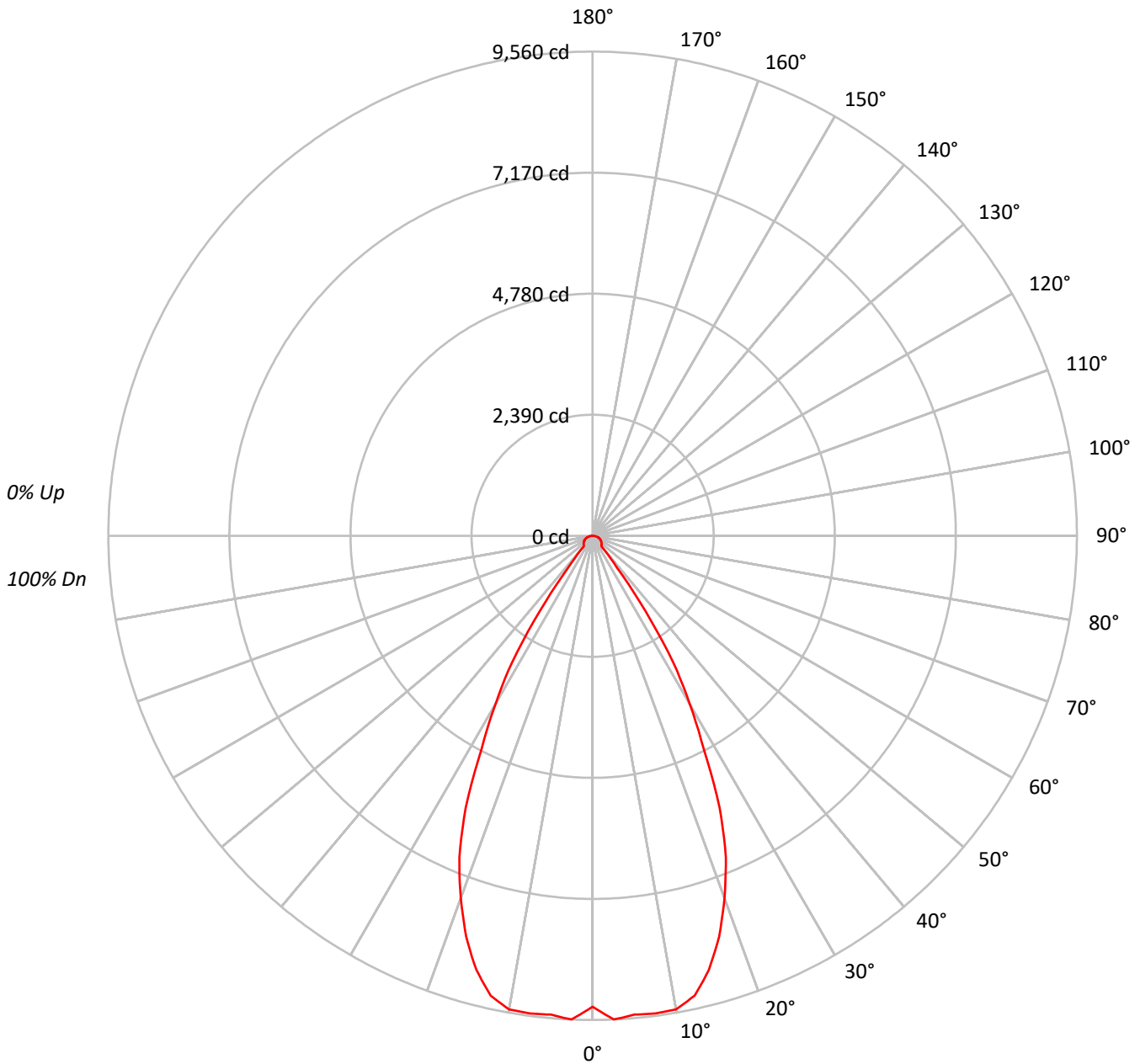
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P755844

CATALOG NUMBER: LD4D90BD010-EU4DR6070959035-4LBSQW1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P755844

CATALOG NUMBER: LD4D90BD010-EU4DR6070959035-4LBSQW1MW

**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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86	86	86	86
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80	80	80	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75	75	75	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70	70	70	70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66	66	66	66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62	62	62	62
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59	59	59	59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55	55	55	55
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53	53	53	53

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1015961
5°	1040944
10°	1053524
15°	1003625
20°	884883
25°	715716
30°	484127
35°	242597
40°	39352
45°	38521
50°	39282
55°	39889
60°	40995
65°	41934
70°	42903
75°	43439
80°	41905
85°	34851

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 75°  
 Luminance: 43439 cd/sqm



TEST NUMBER: P755844

CATALOG NUMBER: LD4D90BD010-EU4DR6070959035-4LBSQW1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	907.1	11.6
10°-20°	2454.2	31.3
20°-30°	2640.5	33.7
30°-40°	1147.8	14.7
40°-50°	192.8	2.5
50°-60°	187.5	2.4
60°-70°	160.3	2.0
70°-80°	107.3	1.4
80°-90°	32.1	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°	6001.8	76.7
0°-40°	7149.6	91.3
0°-60°	7529.8	96.2
0°-90°	7829.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7829.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9298	
5°	9491	907
15°	8873	2454
25°	5937	2641
35°	1819	1148
45°	249	193
55°	209	187
65°	162	160
75°	103	107
85°	28	32
90°	0	



TEST NUMBER: P755844

CATALOG NUMBER: LD4D90BD010-EU4DR6070959035-4LBSQW1MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9298.5
2.5°	9559.9
5°	9490.9
7.5°	9512.7
10°	9495.8
12.5°	9299.7
15°	8872.6
17.5°	8299.0
20°	7610.4
22.5°	6873.5
25°	5936.8
27.5°	4748.5
30°	3837.3
32.5°	2957.5
35°	1818.8
37.5°	778.1
40°	275.9
42.5°	254.1
45°	249.3
47.5°	240.8
50°	231.1
52.5°	220.2
55°	209.4
57.5°	198.5
60°	187.6
62.5°	175.5
65°	162.2
67.5°	148.8
70°	134.3
72.5°	118.6
75°	102.9
77.5°	84.7
80°	66.6
82.5°	47.2
85°	27.8
87.5°	9.7
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)