

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: P748177

Luminaire Tested: LD4D40BD010-EU4DR7040509030-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR7040509030-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3771.9 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

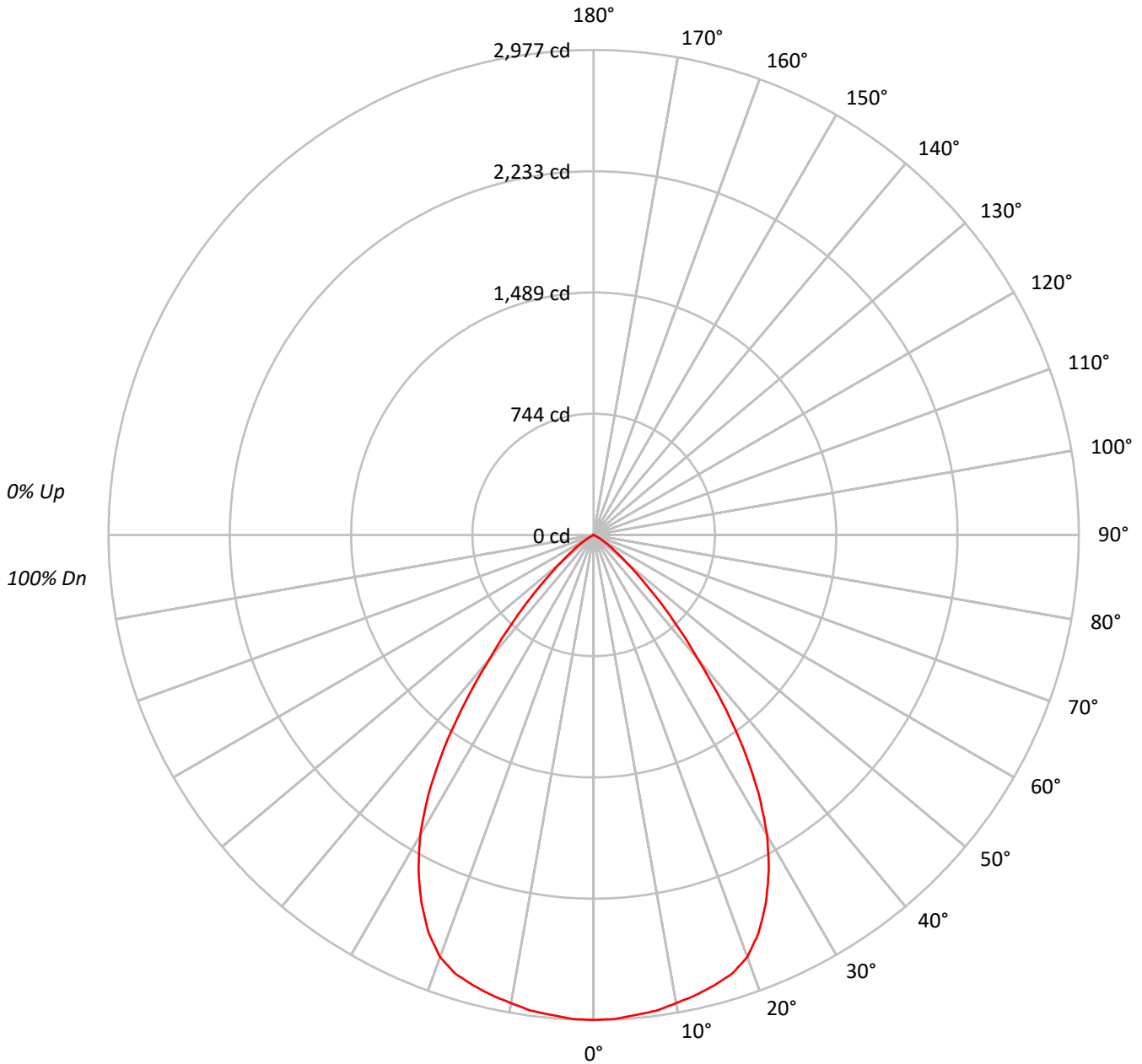
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P748177

CATALOG NUMBER: LD4D40BD010-EU4DR7040509030-4LBCSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P748177

CATALOG NUMBER: LD4D40BD010-EU4DR7040509030-4LBCSSQMW

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	113	110	107	105	111	108	106	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	85	82	87	84	81	85	82	79	78																			
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65																			
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60																			
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56																			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51																			
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48																			
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	325280
5°	324472
10°	323763
15°	323679
20°	320506
25°	301076
30°	268413
35°	214013
40°	142102
45°	84954
50°	44042
55°	23145
60°	8195
65°	129
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 84954 cd/sqm



TEST NUMBER: P748177

CATALOG NUMBER: LD4D40BD010-EU4DR7040509030-4LBCSSQMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	7.5
10°-20°	806.9	21.4
20°-30°	1138.3	30.2
30°-40°	982.6	26.1
40°-50°	440.0	11.7
50°-60°	115.2	3.1
60°-70°	7.5	0.2
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°	2226.5	59.0
0°-40°	3209.1	85.1
0°-60°	3764.4	99.8
0°-90°	3771.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3771.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2977	
5°	2958	281
15°	2862	807
25°	2497	1138
35°	1604	983
45°	550	440
55°	122	115
65°	0	7
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P748177

CATALOG NUMBER: LD4D40BD010-EU4DR7040509030-4LBCSSQMW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2977.1
2.5°	2973.9
5°	2958.4
7.5°	2945.5
10°	2918.2
12.5°	2893.6
15°	2861.5
17.5°	2824.5
20°	2756.5
22.5°	2644.6
25°	2497.4
27.5°	2326.6
30°	2127.5
32.5°	1883.9
35°	1604.5
37.5°	1296.1
40°	996.3
42.5°	757.0
45°	549.8
47.5°	379.0
50°	259.1
52.5°	178.8
55°	121.5
57.5°	73.3
60°	37.5
62.5°	11.8
65°	0.5
67.5°	0.0
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)