

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: P750413

Luminaire Tested: LD4D55D010-EU4DR6555659024-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P750413
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: LD4D55D010-EU4DR6555659024-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4202.6 lumens
Efficiency: N/A
Efficacy: 72.2 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

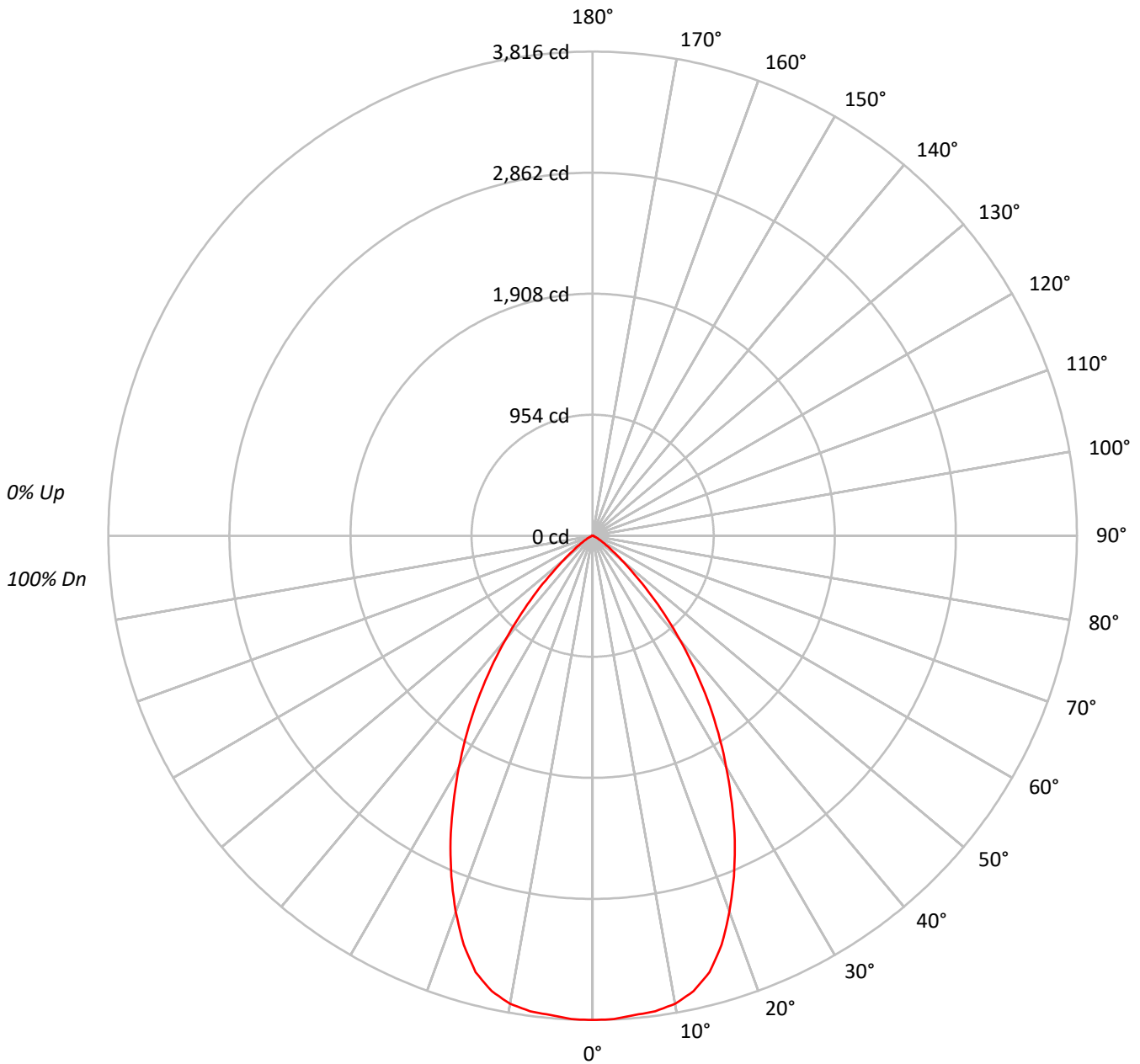
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P750413

CATALOG NUMBER: LD4D55D010-EU4DR6555659024-4LBCSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P750413

CATALOG NUMBER: LD4D55D010-EU4DR6555659024-4LBCSSQMW

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	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°	222863
5°	222302
10°	222114
15°	215264
20°	195972
25°	170777
30°	142040
35°	112544
40°	81227
45°	51317
50°	26749
55°	14215
60°	7464
65°	4104
70°	1725
75°	1896
80°	1312
85°	1139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 51317 cd/sqm



TEST NUMBER: P750413

CATALOG NUMBER: LD4D55D010-EU4DR6555659024-4LBCSSQMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.9	8.6
10°-20°	988.2	23.5
20°-30°	1207.9	28.7
30°-40°	980.1	23.3
40°-50°	488.4	11.6
50°-60°	136.2	3.2
60°-70°	30.9	0.7
70°-80°	8.0	0.2
80°-90°	2.1	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°	2557.0	60.8
0°-40°	3537.0	84.2
0°-60°	4161.6	99.0
0°-90°	4202.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4202.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3816	
5°	3792	361
15°	3560	988
25°	2650	1208
35°	1578	980
45°	621	488
55°	140	136
65°	30	31
75°	8	8
85°	2	2
90°	0	



TEST NUMBER: P750413

CATALOG NUMBER: LD4D55D010-EU4DR6555659024-4LBCSSQMW

CANDELA DISTRIBUTION (FULL):

0°	
0°	3815.9
2.5°	3813.1
5°	3791.8
7.5°	3779.5
10°	3745.3
12.5°	3675.7
15°	3560.2
17.5°	3379.7
20°	3153.1
22.5°	2908.6
25°	2650.1
27.5°	2373.7
30°	2106.2
32.5°	1842.1
35°	1578.5
37.5°	1315.5
40°	1065.4
42.5°	831.0
45°	621.3
47.5°	432.9
50°	294.4
52.5°	203.0
55°	139.6
57.5°	94.2
60°	63.9
62.5°	44.3
65°	29.7
67.5°	15.1
70°	10.1
72.5°	9.5
75°	8.4
77.5°	5.6
80°	3.9
82.5°	2.8
85°	1.7
87.5°	1.1
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)