

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: P755955

Luminaire Tested: LD4D90BD010-EU4DR7070959024-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR7070959024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5806.9 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

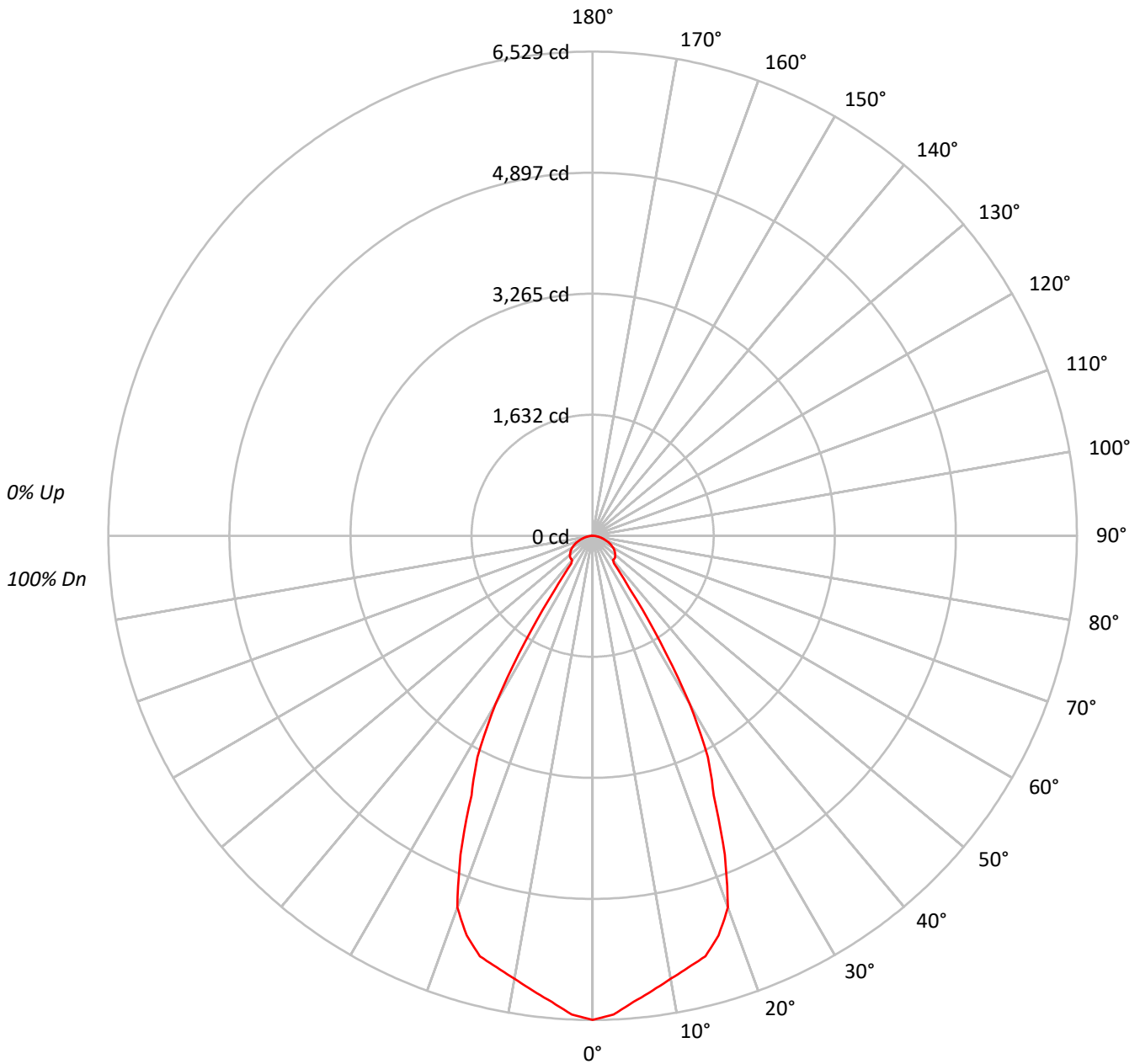
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P755955
CATALOG NUMBER: LD4D90BD010-EU4DR7070959024-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P755955
 CATALOG NUMBER: LD4D90BD010-EU4DR7070959024-4LBDP1MW

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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	713320
5°	692124
10°	672834
15°	664008
20°	620048
25°	465804
30°	329287
35°	116643
40°	61331
45°	65330
50°	67652
55°	68919
60°	69337
65°	67891
70°	64051
75°	59354
80°	52665
85°	42749

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 69363 cd/sqm



TEST NUMBER: P755955

CATALOG NUMBER: LD4D90BD010-EU4DR7070959024-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.2	10.3
10°-20°	1632.7	28.1
20°-30°	1798.1	31.0
30°-40°	687.0	11.8
40°-50°	324.4	5.6
50°-60°	322.5	5.6
60°-70°	258.2	4.4
70°-80°	148.4	2.6
80°-90°	40.3	0.7
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°	4026.0	69.3
0°-40°	4713.0	81.2
0°-60°	5360.0	92.3
0°-90°	5806.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5806.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6529	
5°	6310	595
15°	5870	1633
25°	3864	1798
35°	874	687
45°	423	324
55°	362	323
65°	263	258
75°	141	148
85°	34	40
90°	0	



TEST NUMBER: P755955

CATALOG NUMBER: LD4D90BD010-EU4DR7070959024-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	6528.6
2.5°	6460.4
5°	6310.5
7.5°	6185.4
10°	6064.5
12.5°	5962.2
15°	5870.2
17.5°	5647.9
20°	5332.7
22.5°	4652.5
25°	3863.8
27.5°	3363.5
30°	2610.0
32.5°	1685.9
35°	874.5
37.5°	472.4
40°	430.0
42.5°	426.9
45°	422.8
47.5°	413.5
50°	398.0
52.5°	380.4
55°	361.8
57.5°	341.1
60°	317.3
62.5°	290.5
65°	262.6
67.5°	231.5
70°	200.5
72.5°	169.5
75°	140.6
77.5°	110.6
80°	83.7
82.5°	58.9
85°	34.1
87.5°	13.4
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)