

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: P755539

Luminaire Tested: LD4D90BD010-EU4DR4070959040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR4070959040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9004.6 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

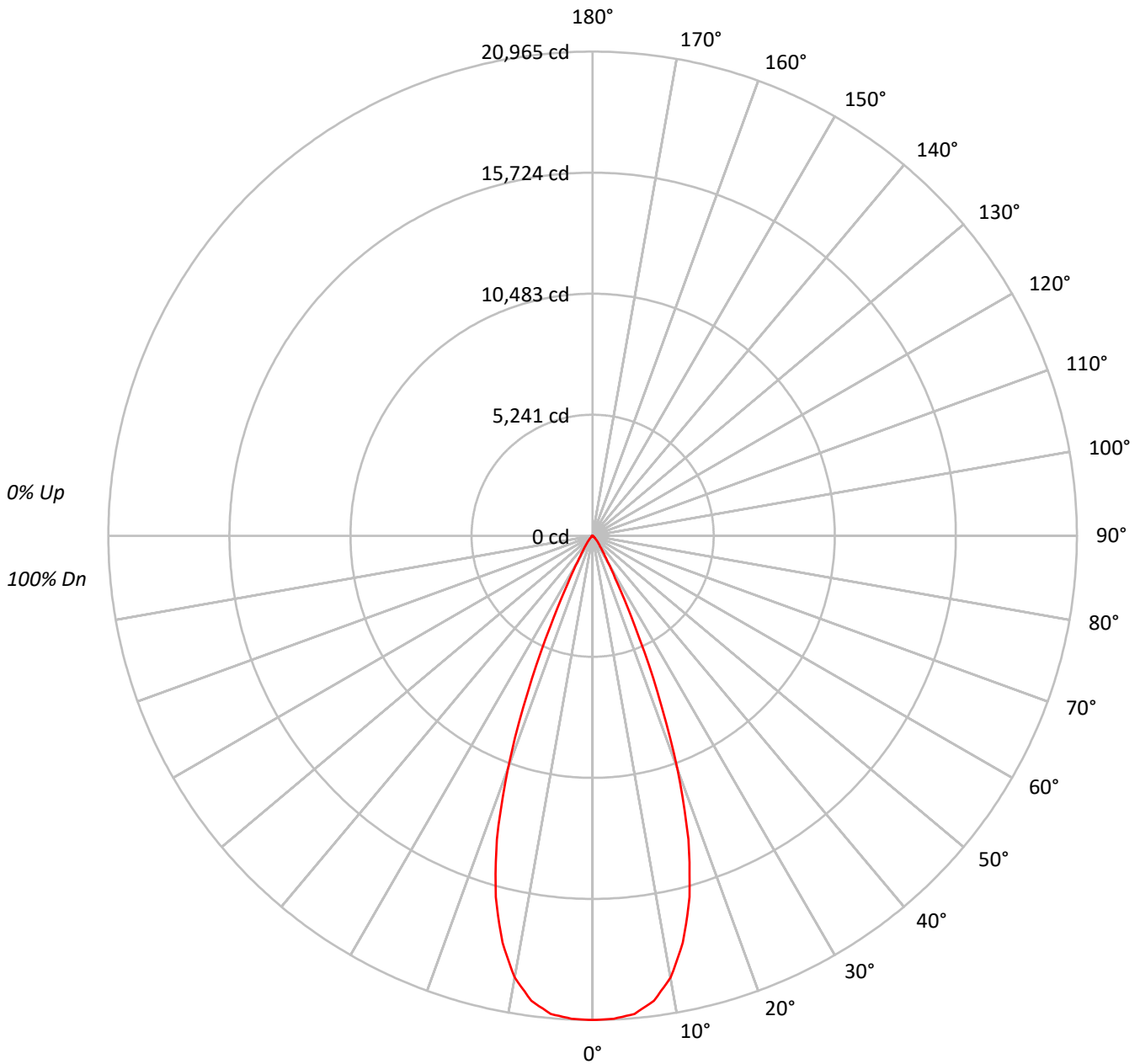
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P755539
CATALOG NUMBER: LD4D90BD010-EU4DR4070959040-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P755539

CATALOG NUMBER: LD4D90BD010-EU4DR4070959040-4LBDP1MW

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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92																			
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88																			
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84																			
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81																			
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77																			
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74																			
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72																			
9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	72	70	69																			
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2290674
5°	2279539
10°	2154665
15°	1831740
20°	1248457
25°	520910
30°	163785
35°	76122
40°	42104
45°	19299
50°	9366
55°	5124
60°	2666
65°	957
70°	383
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19299 cd/sqm



TEST NUMBER: P755539

CATALOG NUMBER: LD4D90BD010-EU4DR4070959040-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1940.7	21.6
10°-20°	4347.7	48.3
20°-30°	2176.3	24.2
30°-40°	398.9	4.4
40°-50°	110.1	1.2
50°-60°	25.8	0.3
60°-70°	4.9	0.1
70°-80°	0.2	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°	8464.7	94.0
0°-40°	8863.6	98.4
0°-60°	8999.5	99.9
0°-90°	9004.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9004.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20965	
5°	20784	###
15°	16194	4348
25°	4321	2176
35°	571	399
45°	125	110
55°	27	26
65°	4	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P755539
CATALOG NUMBER: LD4D90BD010-EU4DR4070959040-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	20965.2
2.5°	20934.6
5°	20783.9
7.5°	20303.8
10°	19420.8
12.5°	18044.2
15°	16193.6
17.5°	13787.0
20°	10737.3
22.5°	7320.3
25°	4320.9
27.5°	2284.1
30°	1298.2
32.5°	839.0
35°	570.7
37.5°	407.8
40°	295.2
42.5°	202.1
45°	124.9
47.5°	79.6
50°	55.1
52.5°	39.2
55°	26.9
57.5°	17.1
60°	12.2
62.5°	7.3
65°	3.7
67.5°	2.4
70°	1.2
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)