

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: P755929

Luminaire Tested: LD4D90BD010-EU4DR6570959040-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR6570959040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6873.4 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

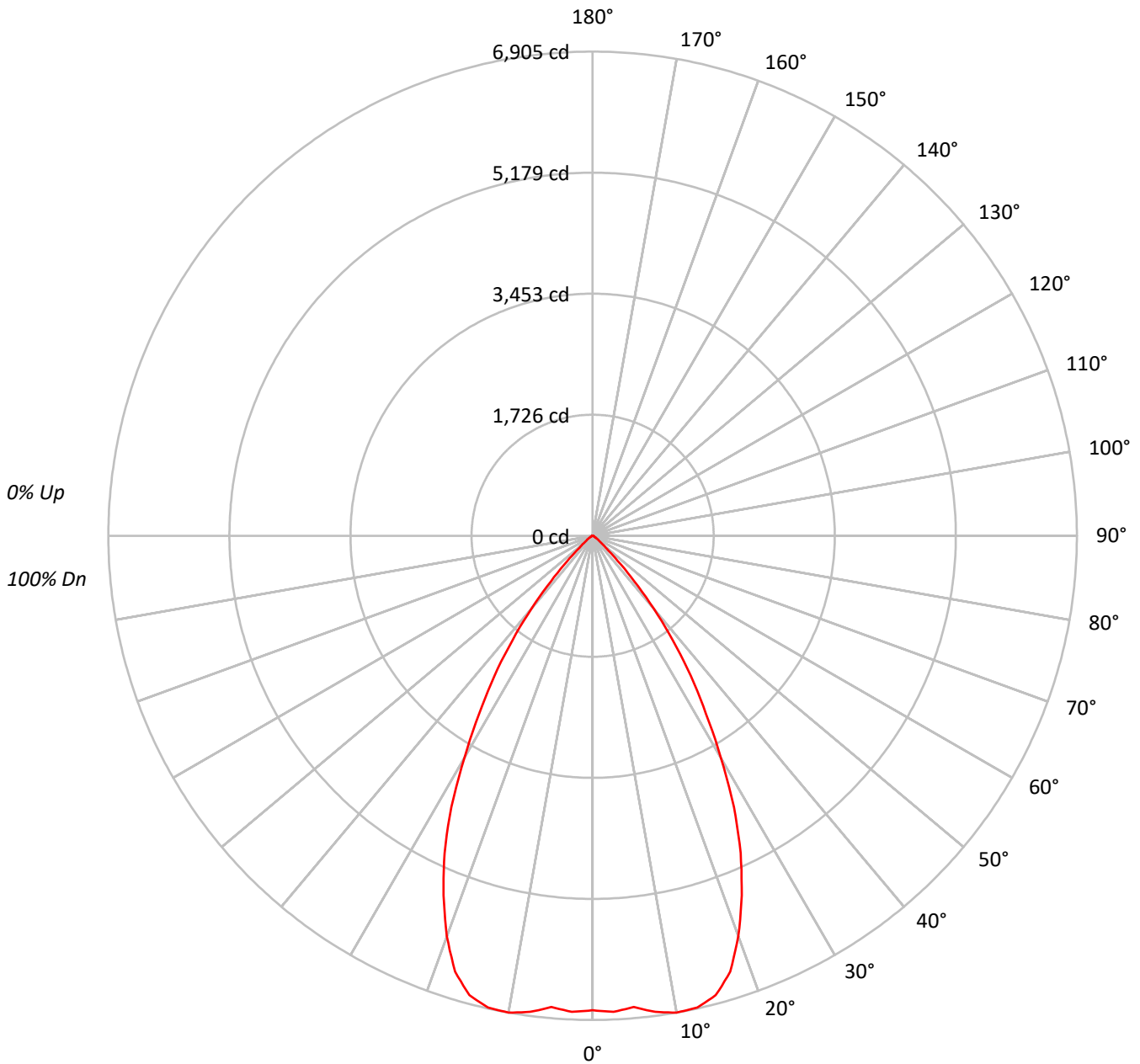
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P755929
CATALOG NUMBER: LD4D90BD010-EU4DR6570959040-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P755929

CATALOG NUMBER: LD4D90BD010-EU4DR6570959040-4LBDP1MW

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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	739411
5°	740020
10°	766073
15°	767339
20°	706462
25°	601948
30°	460812
35°	325561
40°	192165
45°	78016
50°	28285
55°	15754
60°	9047
65°	4964
70°	5207
75°	4053
80°	4216
85°	3636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 78016 cd/sqm



TEST NUMBER: P755929

CATALOG NUMBER: LD4D90BD010-EU4DR6570959040-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.6	9.5
10°-20°	1879.7	27.3
20°-30°	2255.3	32.8
30°-40°	1515.6	22.1
40°-50°	453.7	6.6
50°-60°	80.1	1.2
60°-70°	22.7	0.3
70°-80°	11.2	0.2
80°-90°	3.5	0.1
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°	4786.6	69.6
0°-40°	6302.2	91.7
0°-60°	6836.0	99.5
0°-90°	6873.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6873.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6767	
5°	6747	652
15°	6784	1880
25°	4993	2255
35°	2441	1516
45°	505	454
55°	83	80
65°	19	23
75°	10	11
85°	3	4
90°	0	



TEST NUMBER: P755929

CATALOG NUMBER: LD4D90BD010-EU4DR6570959040-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	6767.4
2.5°	6796.2
5°	6747.2
7.5°	6849.1
10°	6904.9
12.5°	6891.4
15°	6783.7
17.5°	6520.2
20°	6075.9
22.5°	5552.8
25°	4993.1
27.5°	4361.2
30°	3652.5
32.5°	3010.1
35°	2440.8
37.5°	1878.2
40°	1347.3
42.5°	879.9
45°	504.9
47.5°	267.3
50°	166.4
52.5°	115.4
55°	82.7
57.5°	59.6
60°	41.4
62.5°	26.9
65°	19.2
67.5°	17.3
70°	16.3
72.5°	12.5
75°	9.6
77.5°	8.7
80°	6.7
82.5°	4.8
85°	2.9
87.5°	1.9
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)