

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: P755889

Luminaire Tested: LD4D90BD010-EU4DR6570959027-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755889
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-EU4DR6570959027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7676.0 lumens
Efficiency: N/A
Efficacy: 77.6 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

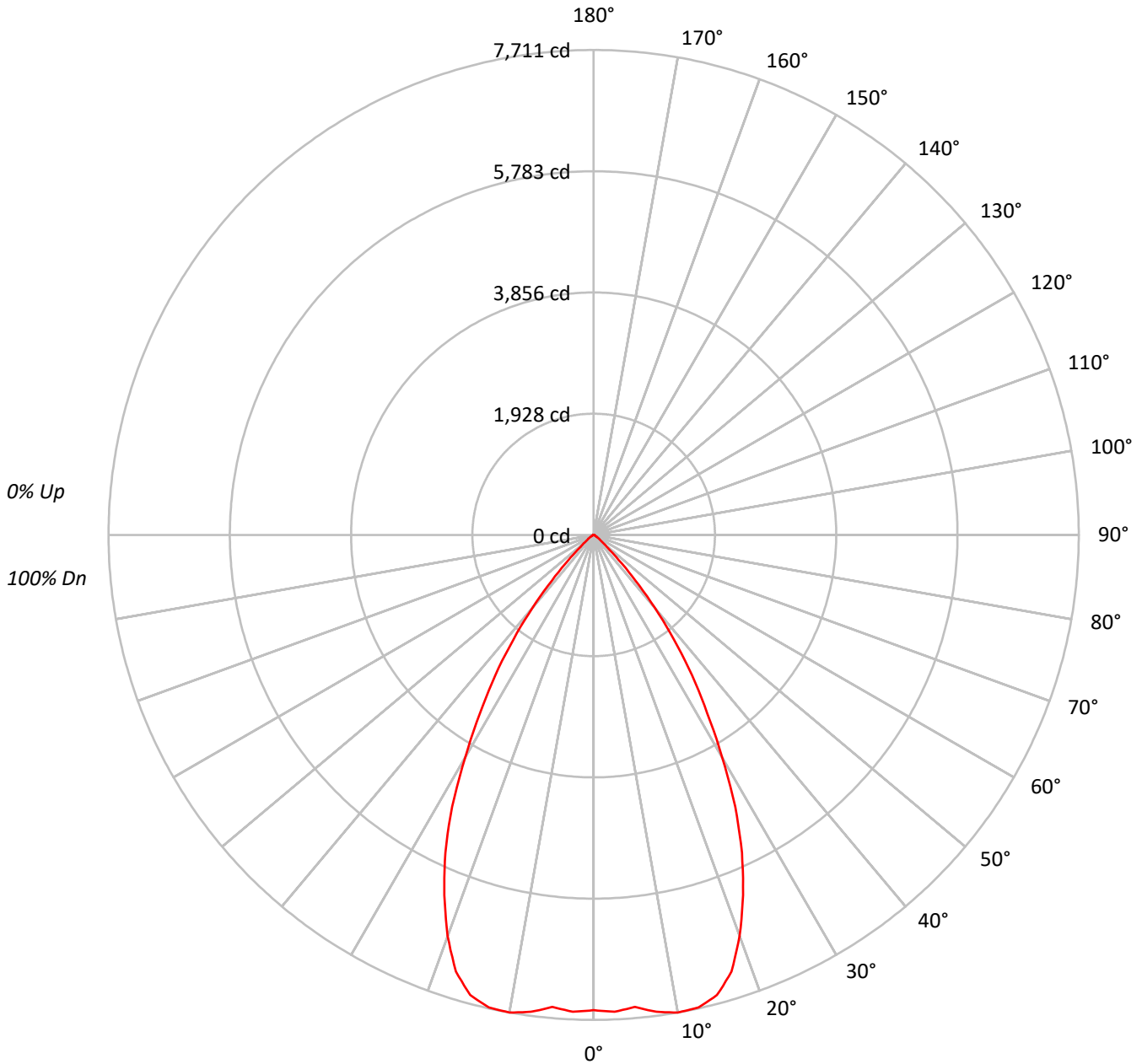


Downlight

TEST NUMBER: P755889

CATALOG NUMBER: LD4D90BD010-EU4DR6570959027-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P755889

CATALOG NUMBER: LD4D90BD010-EU4DR6570959027-4LBDP1LI

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	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°	825738
5°	826425
10°	855518
15°	856937
20°	788946
25°	672232
30°	514608
35°	363561
40°	214601
45°	87117
50°	31582
55°	17601
60°	10096
65°	5558
70°	5846
75°	4517
80°	4719
85°	4012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 87117 cd/sqm



TEST NUMBER: P755889

CATALOG NUMBER: LD4D90BD010-EU4DR6570959027-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.7	9.5
10°-20°	2099.2	27.3
20°-30°	2518.6	32.8
30°-40°	1692.6	22.0
40°-50°	506.7	6.6
50°-60°	89.4	1.2
60°-70°	25.4	0.3
70°-80°	12.5	0.2
80°-90°	3.9	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°	5345.5	69.6
0°-40°	7038.0	91.7
0°-60°	7634.2	99.5
0°-90°	7676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7676.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7558	
5°	7535	728
15°	7576	2099
25°	5576	2519
35°	2726	1693
45°	564	507
55°	92	89
65°	22	25
75°	11	12
85°	3	4
90°	0	



TEST NUMBER: P755889

CATALOG NUMBER: LD4D90BD010-EU4DR6570959027-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	7557.5
2.5°	7589.8
5°	7535.0
7.5°	7648.8
10°	7711.1
12.5°	7696.1
15°	7575.8
17.5°	7281.5
20°	6785.3
22.5°	6201.1
25°	5576.1
27.5°	4870.5
30°	4078.9
32.5°	3361.5
35°	2725.7
37.5°	2097.5
40°	1504.6
42.5°	982.7
45°	563.8
47.5°	298.6
50°	185.8
52.5°	128.9
55°	92.4
57.5°	66.6
60°	46.2
62.5°	30.1
65°	21.5
67.5°	19.3
70°	18.3
72.5°	14.0
75°	10.7
77.5°	9.7
80°	7.5
82.5°	5.4
85°	3.2
87.5°	2.1
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)