

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: P755796

Luminaire Tested: LD4D90BD010-EU4DR6070959024-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR6070959024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5816.2 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
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

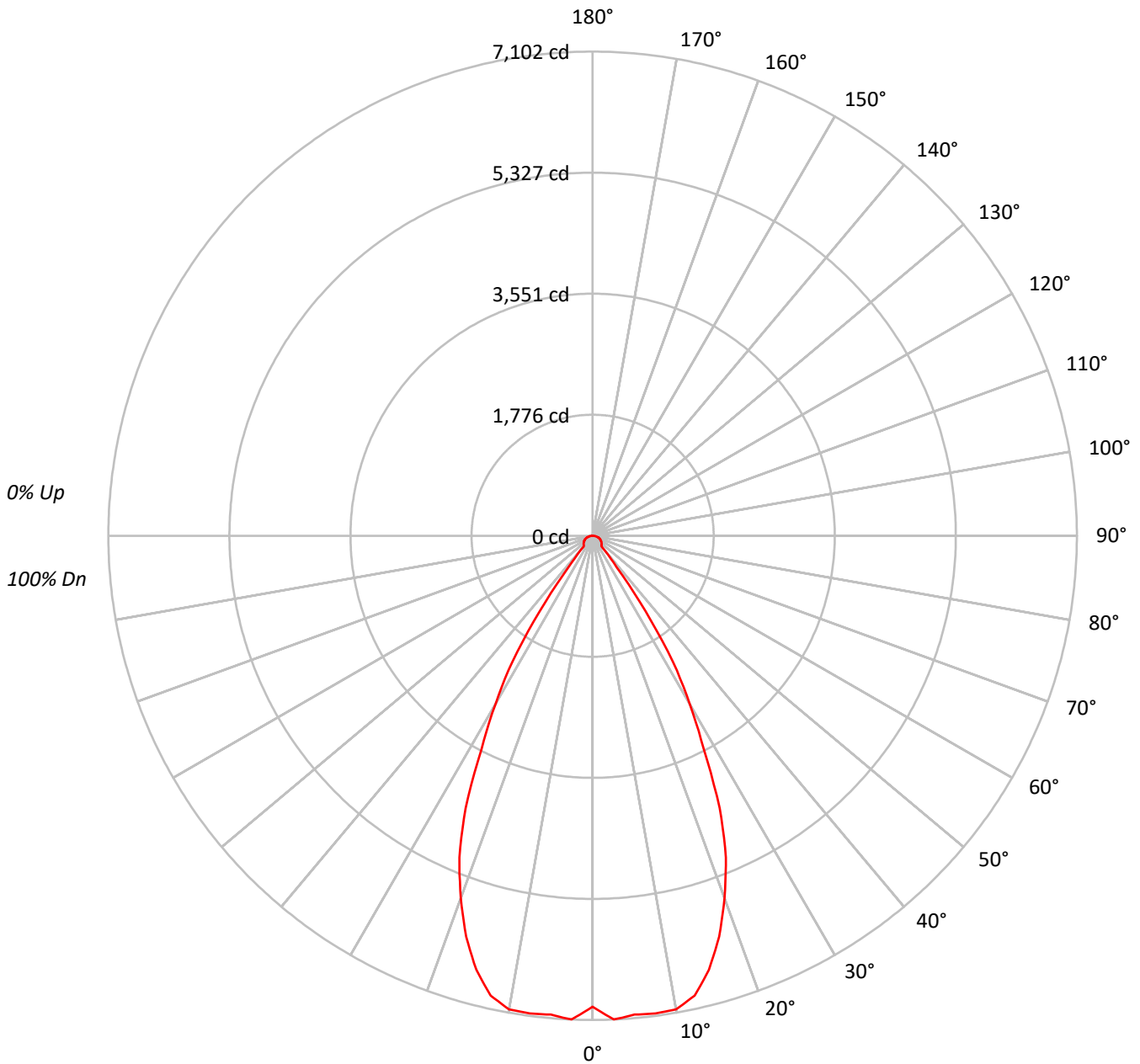


Downlight

TEST NUMBER: P755796

CATALOG NUMBER: LD4D90BD010-EU4DR6070959024-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P755796

CATALOG NUMBER: LD4D90BD010-EU4DR6070959024-4LBDP1B

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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	754719
5°	773275
10°	782615
15°	745541
20°	657337
25°	531676
30°	359629
35°	180213
40°	29239
45°	28617
50°	29185
55°	29621
60°	30440
65°	31153
70°	31882
75°	32252
80°	31083
85°	25950

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 32252 cd/sqm



TEST NUMBER: P755796

CATALOG NUMBER: LD4D90BD010-EU4DR6070959024-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.8	11.6
10°-20°	1823.1	31.3
20°-30°	1961.5	33.7
30°-40°	852.6	14.7
40°-50°	143.2	2.5
50°-60°	139.2	2.4
60°-70°	119.1	2.0
70°-80°	79.7	1.4
80°-90°	23.9	0.4
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°	4458.5	76.7
0°-40°	5311.1	91.3
0°-60°	5593.5	96.2
0°-90°	5816.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5816.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6908	
5°	7050	674
15°	6591	1823
25°	4410	1962
35°	1351	853
45°	185	143
55°	156	139
65°	120	119
75°	76	80
85°	21	24
90°	0	



TEST NUMBER: P755796

CATALOG NUMBER: LD4D90BD010-EU4DR6070959024-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	6907.5
2.5°	7101.6
5°	7050.4
7.5°	7066.6
10°	7054.0
12.5°	6908.3
15°	6591.0
17.5°	6164.9
20°	5653.4
22.5°	5106.0
25°	4410.2
27.5°	3527.4
30°	2850.5
32.5°	2197.0
35°	1351.1
37.5°	578.0
40°	205.0
42.5°	188.8
45°	185.2
47.5°	178.9
50°	171.7
52.5°	163.6
55°	155.5
57.5°	147.4
60°	139.3
62.5°	130.3
65°	120.5
67.5°	110.6
70°	99.8
72.5°	88.1
75°	76.4
77.5°	62.9
80°	49.4
82.5°	35.1
85°	20.7
87.5°	7.2
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)