

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: P744733

Luminaire Tested: LD4D20D010-EU4DR7020359027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P744733
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: LD4D20D010-EU4DR7020359027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1048.8 lumens
Efficiency: N/A
Efficacy: 45.4 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): 23.1
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

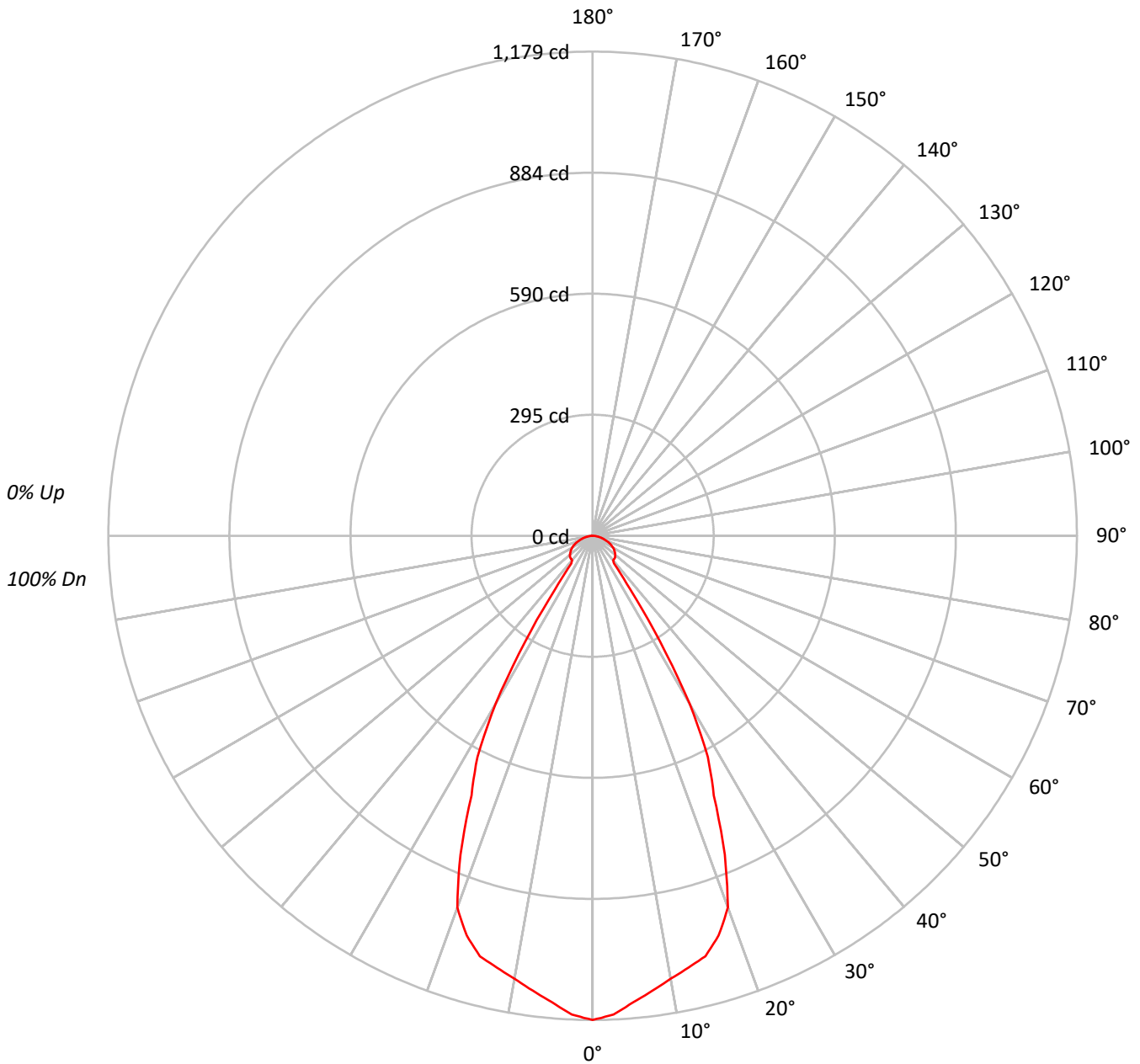


Downlight



TEST NUMBER: P744733
CATALOG NUMBER: LD4D20D010-EU4DR7020359027-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P744733

CATALOG NUMBER: LD4D20D010-EU4DR7020359027-4LBDP1B

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	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°	128829
5°	125011
10°	121519
15°	119925
20°	111982
25°	84136
30°	59473
35°	21074
40°	11082
45°	11805
50°	12222
55°	12439
60°	12521
65°	12254
70°	11564
75°	10723
80°	9501
85°	7772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 12526 cd/sqm



TEST NUMBER: P744733

CATALOG NUMBER: LD4D20D010-EU4DR7020359027-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	10.2
10°-20°	294.9	28.1
20°-30°	324.8	31.0
30°-40°	124.1	11.8
40°-50°	58.6	5.6
50°-60°	58.2	5.6
60°-70°	46.6	4.4
70°-80°	26.8	2.6
80°-90°	7.3	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°	727.2	69.3
0°-40°	851.2	81.2
0°-60°	968.1	92.3
0°-90°	1048.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1048.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1179	
5°	1140	108
15°	1060	295
25°	698	325
35°	158	124
45°	76	59
55°	65	58
65°	47	47
75°	25	27
85°	6	7
90°	0	



TEST NUMBER: P744733

CATALOG NUMBER: LD4D20D010-EU4DR7020359027-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	1179.1
2.5°	1166.8
5°	1139.8
7.5°	1117.2
10°	1095.3
12.5°	1076.9
15°	1060.2
17.5°	1020.1
20°	963.1
22.5°	840.3
25°	697.9
27.5°	607.5
30°	471.4
32.5°	304.5
35°	158.0
37.5°	85.3
40°	77.7
42.5°	77.1
45°	76.4
47.5°	74.7
50°	71.9
52.5°	68.7
55°	65.3
57.5°	61.6
60°	57.3
62.5°	52.5
65°	47.4
67.5°	41.8
70°	36.2
72.5°	30.6
75°	25.4
77.5°	20.0
80°	15.1
82.5°	10.7
85°	6.2
87.5°	2.4
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)