

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: P743969

Luminaire Tested: LD4D20D010-EU4DR2015309030-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR2015309030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1800.9 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
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



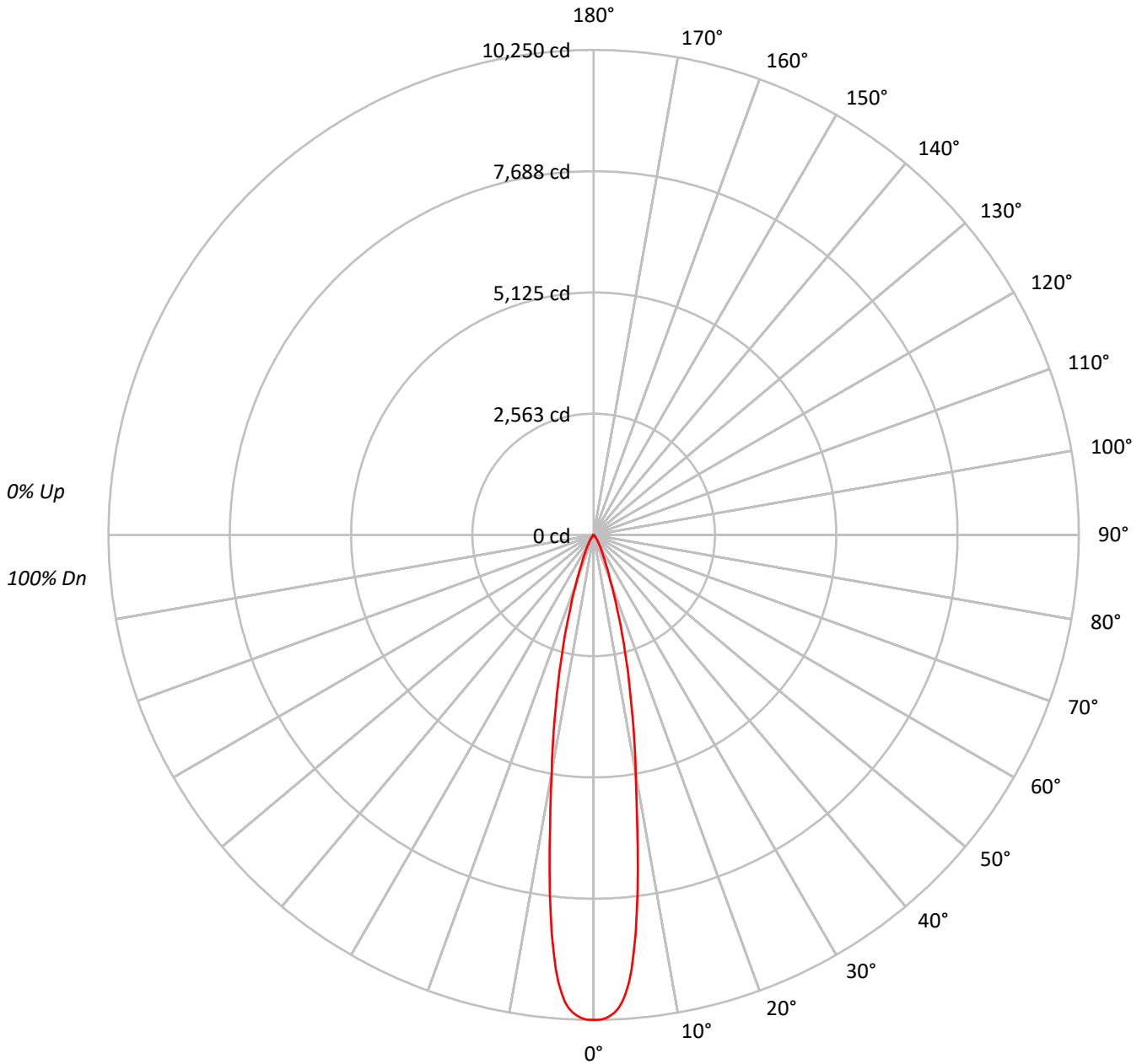
Downlight



TEST NUMBER: P743969

CATALOG NUMBER: LD4D20D010-EU4DR2015309030-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P743969

CATALOG NUMBER: LD4D20D010-EU4DR2015309030-4LBDP1MW

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				100															
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	98	98	97															
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	98	96	95	94															
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	95	93	92	91															
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	93	91	89	88															
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	91	88	86	85															
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	88	86	84	83															
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	86	84	82	81															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	84	82	80	79															
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	82	80	78	77															
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	81	78	76	75															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1119912
5°	1010377
10°	567080
15°	288251
20°	122040
25°	56336
30°	29825
35°	16073
40°	8586
45°	5084
50°	2941
55°	1562
60°	1005
65°	698
70°	288
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5084 cd/sqm



TEST NUMBER: P743969

CATALOG NUMBER: LD4D20D010-EU4DR2015309030-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	729.8	40.5
10°-20°	718.6	39.9
20°-30°	234.8	13.0
30°-40°	79.9	4.4
40°-50°	26.9	1.5
50°-60°	8.1	0.4
60°-70°	2.7	0.1
70°-80°	0.1	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°	1683.1	93.5
0°-40°	1763.1	97.9
0°-60°	1798.1	99.8
0°-90°	1800.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1800.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10250	
5°	9212	730
15°	2548	719
25°	467	235
35°	120	80
45°	33	27
55°	8	8
65°	3	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P743969

CATALOG NUMBER: LD4D20D010-EU4DR2015309030-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	10249.9
0.5°	10249.9
1°	10237.2
1.5°	10211.6
2°	10165.1
2.5°	10103.0
3°	10015.4
3.5°	9893.1
4°	9711.4
4.5°	9490.5
5°	9212.2
5.5°	8846.2
6°	8471.0
6.5°	8041.1
7°	7620.4
7.5°	7127.5
8°	6687.6
8.5°	6244.9
9°	5836.0
9.5°	5460.9
10°	5111.3
12.5°	3670.1
15°	2548.3
17.5°	1664.8
20°	1049.6
22.5°	680.0
25°	467.3
27.5°	328.6
30°	236.4
32.5°	169.8
35°	120.5
37.5°	84.0
40°	60.2
42.5°	43.8
45°	32.9
47.5°	25.6
50°	17.3
52.5°	11.0
55°	8.2
57.5°	6.4
60°	4.6
62.5°	3.7
65°	2.7



TEST NUMBER: P743969

CATALOG NUMBER: LD4D20D010-EU4DR2015309030-4LBDP1MW

CANDELA DISTRIBUTION (continued):

	0°
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



67.5°		1.8
70°		0.9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)