

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: P743930

Luminaire Tested: LD4D20D010-EU4DR1515309050-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR1515309050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1933.7 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 23.1
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

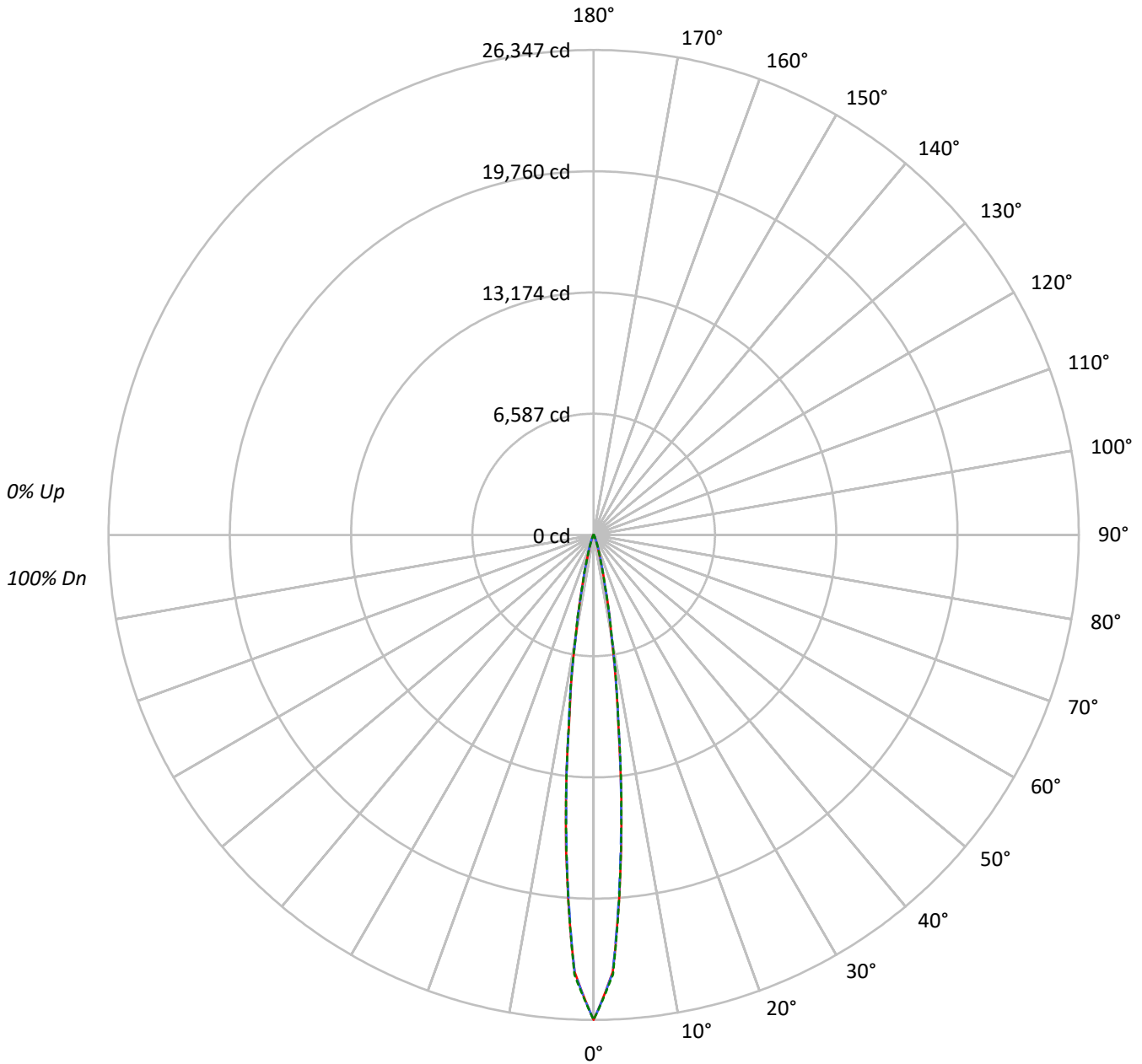


Downlight



TEST NUMBER: P743930
CATALOG NUMBER: LD4D20D010-EU4DR1515309050-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P743930

CATALOG NUMBER: LD4D20D010-EU4DR1515309050-4LBDP1MW

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																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2964586	2964586	2964586
5°	1742133	1719571	1733169
10°	519947	523586	531601
15°	129330	131849	127784
20°	38694	44806	39520
25°	13640	17380	13812
30°	5010	6597	5092
35°	2513	2832	2433
40°	1584	1740	1584
45°	1169	1246	1169
50°	932	932	932
55°	780	780	780
60°	625	625	625
65°	478	478	478
70°	410	410	410
75°	249	249	340
80°	173	173	173
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1246 cd/sqm



TEST NUMBER: P743930

CATALOG NUMBER: LD4D20D010-EU4DR1515309050-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1254.2	64.9
10°-20°	515.9	26.7
20°-30°	102.5	5.3
30°-40°	25.6	1.3
40°-50°	13.4	0.7
50°-60°	10.0	0.5
60°-70°	7.0	0.4
70°-80°	4.0	0.2
80°-90°	1.2	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°	1872.5	96.8
0°-40°	1898.1	98.2
0°-60°	1921.5	99.4
0°-90°	1933.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1933.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26347	26347	26347	26347	26347	
5°	17142	16966	16920	17037	17054	1252
15°	1489	1517	1518	1491	1471	511
25°	175	198	223	197	177	92
35°	35	37	39	37	34	23
45°	17	17	18	17	17	13
55°	11	11	11	11	11	10
65°	7	7	7	7	7	7
75°	3	3	3	3	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P743930

CATALOG NUMBER: LD4D20D010-EU4DR1515309050-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26347.2	26347.2	26347.2	26347.2	26347.2
2.5°	23766.2	23786.3	23794.1	23817.5	23904.5
5°	17142.1	16965.8	16920.1	17037.2	17053.9
7.5°	10154.3	10190.0	10320.5	10349.5	10244.6
10°	5572.4	5618.1	5611.4	5651.6	5697.3
12.5°	2849.8	2814.1	2802.9	2848.6	2785.1
15°	1489.0	1516.9	1518.0	1491.2	1471.2
17.5°	800.8	833.2	886.7	843.2	776.3
20°	472.9	501.9	547.6	512.0	483.0
22.5°	292.2	315.6	348.0	320.1	296.7
25°	175.1	198.5	223.1	197.4	177.3
27.5°	103.7	123.8	139.4	122.7	102.6
30°	66.9	78.1	88.1	77.0	68.0
32.5°	46.8	51.3	55.8	51.3	46.8
35°	34.6	36.8	39.0	36.8	33.5
37.5°	26.8	29.0	30.1	27.9	25.7
40°	22.3	23.4	24.5	23.4	22.3
42.5°	19.0	20.1	20.1	20.1	19.0
45°	16.7	16.7	17.8	16.7	16.7
47.5°	14.5	14.5	15.6	14.5	14.5
50°	13.4	13.4	13.4	13.4	13.4
52.5°	12.3	12.3	12.3	12.3	12.3
55°	11.2	11.2	11.2	11.2	11.2
57.5°	10.0	10.0	10.0	10.0	10.0
60°	8.9	8.9	8.9	8.9	8.9
62.5°	7.8	7.8	7.8	7.8	7.8
65°	6.7	6.7	6.7	6.7	6.7
67.5°	6.7	6.7	6.7	6.7	6.7
70°	5.6	5.6	5.6	5.6	5.6
72.5°	4.5	4.5	4.5	4.5	4.5
75°	3.3	3.3	3.3	3.3	4.5
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.2	2.2	2.2	2.2	2.2
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	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





— 0°-180° - - 45°-225° - - - - 90°-270°

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)