

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: P739113

Luminaire Tested: LD4D02D010-EU4DR300210IC9040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P739113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D02D010-EU4DR300210IC9040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 329.4 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 5.1
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



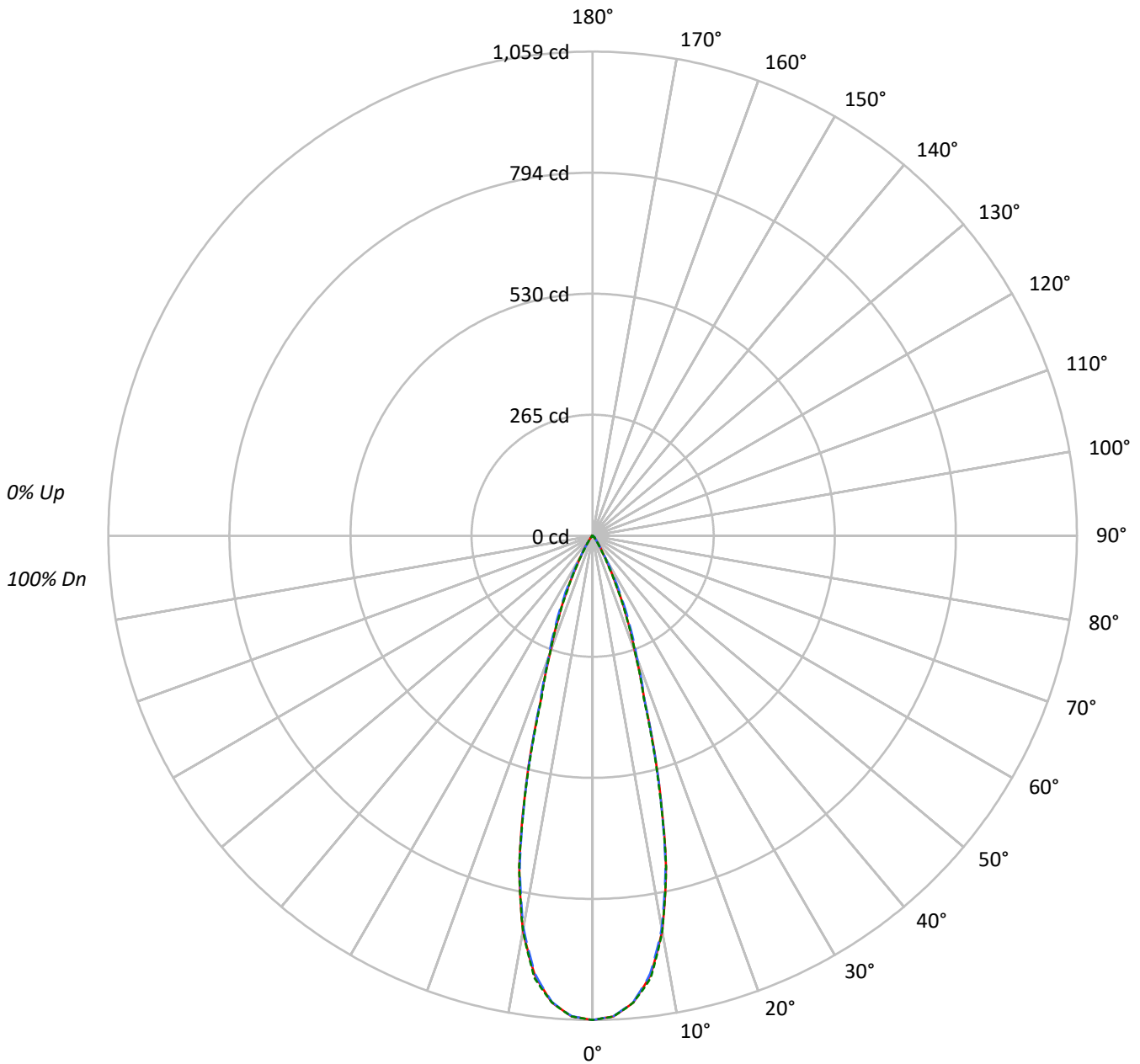
Downlight



TEST NUMBER: P739113

CATALOG NUMBER: LD4D02D010-EU4DR300210IC9040-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P739113

CATALOG NUMBER: LD4D02D010-EU4DR300210IC9040-4LBDP1MW

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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	81059	81059	81059
5°	78734	78641	78741
10°	68195	67713	68180
15°	44495	44258	44036
20°	22123	22954	22091
25°	11148	12567	10920
30°	4463	4861	3889
35°	2074	1981	1663
40°	889	989	839
45°	628	779	639
50°	214	572	226
55°	120	240	133
60°	92	107	92
65°	54	54	54
70°	45	22	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 779 cd/sqm



TEST NUMBER: P739113

CATALOG NUMBER: LD4D02D010-EU4DR300210IC9040-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	28.3
10°-20°	150.0	45.5
20°-30°	64.8	19.7
30°-40°	14.8	4.5
40°-50°	5.1	1.5
50°-60°	1.2	0.4
60°-70°	0.3	0.1
70°-80°	0.0	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°	307.9	93.5
0°-40°	322.7	98.0
0°-60°	329.0	99.9
0°-90°	329.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	329.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1025	1024	1024	1026	1025	93
15°	562	555	558	557	556	150
25°	132	137	149	134	129	63
35°	22	23	21	21	18	15
45°	6	7	7	7	6	4
55°	1	1	2	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P739113

CATALOG NUMBER: LD4D02D010-EU4DR300210IC9040-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1052.1	1051.3	1051.7	1052.2	1052.5
5°	1024.7	1023.7	1023.5	1025.7	1024.8
7.5°	969.7	968.3	966.1	971.0	975.5
10°	877.4	875.9	871.2	873.5	877.2
12.5°	741.2	736.2	736.1	743.4	742.4
15°	561.5	554.7	558.5	556.7	555.7
17.5°	377.6	375.0	380.0	378.5	372.0
20°	271.6	272.3	281.8	277.0	271.2
22.5°	198.2	200.6	211.9	199.6	195.1
25°	132.0	136.9	148.8	133.5	129.3
27.5°	81.2	83.5	95.5	80.1	77.9
30°	50.5	49.3	55.0	47.2	44.0
32.5°	33.1	31.7	33.5	30.1	27.4
35°	22.2	22.6	21.2	21.1	17.8
37.5°	13.8	15.9	14.0	15.0	11.5
40°	8.9	11.5	9.9	10.9	8.4
42.5°	7.3	8.9	8.1	8.7	7.5
45°	5.8	7.2	7.2	7.2	5.9
47.5°	3.2	4.8	6.2	4.9	3.4
50°	1.8	2.5	4.8	2.5	1.9
52.5°	1.3	1.4	3.3	1.4	1.3
55°	0.9	1.0	1.8	1.0	1.0
57.5°	0.7	0.8	0.9	0.8	0.7
60°	0.6	0.6	0.7	0.6	0.6
62.5°	0.4	0.4	0.5	0.4	0.4
65°	0.3	0.3	0.3	0.3	0.3
67.5°	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.1	0.1	0.1	0.2
72.5°	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)