

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: P747568

Luminaire Tested: LD4D40BD010-EU4DR3040509035-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747568
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: LD4D40BD010-EU4DR3040509035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3712.3 lumens
Efficiency: N/A
Efficacy: 105.5 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

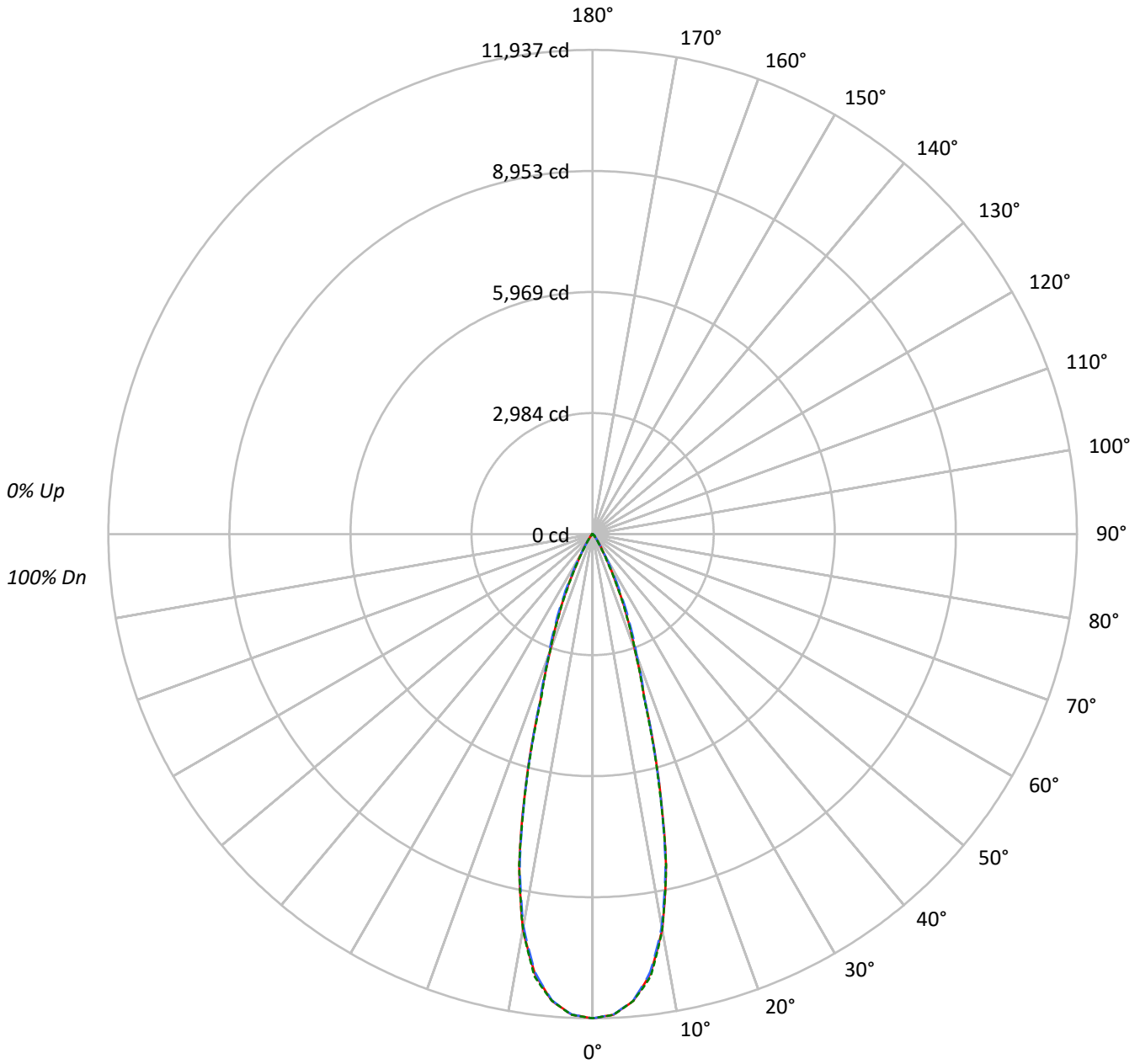
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P747568
CATALOG NUMBER: LD4D40BD010-EU4DR3040509035-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P747568

CATALOG NUMBER: LD4D40BD010-EU4DR3040509035-4LBDP1H

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°	913699	913699	913699
5°	887469	886431	887515
10°	768685	763259	768498
15°	501525	498830	496326
20°	249385	258744	249051
25°	125620	141659	123053
30°	50300	54807	43821
35°	23333	22342	18726
40°	10072	11181	9482
45°	7101	8822	7166
50°	2441	6418	2584
55°	1401	2656	1481
60°	980	1163	980
65°	634	634	634
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8822 cd/sqm



TEST NUMBER: P747568

CATALOG NUMBER: LD4D40BD010-EU4DR3040509035-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.7	28.3
10°-20°	1690.5	45.5
20°-30°	730.5	19.7
30°-40°	166.5	4.5
40°-50°	57.2	1.5
50°-60°	13.9	0.4
60°-70°	3.6	0.1
70°-80°	0.4	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°	3470.7	93.5
0°-40°	3637.2	98.0
0°-60°	3708.3	99.9
0°-90°	3712.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3712.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11937	11937	11937	11937	11937	
5°	11550	11539	11537	11561	11551	1051
15°	6329	6253	6295	6274	6263	1695
25°	1487	1544	1677	1504	1457	712
35°	250	255	239	237	200	169
45°	66	82	82	82	66	47
55°	10	11	20	12	11	10
65°	4	4	4	4	4	3
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P747568

CATALOG NUMBER: LD4D40BD010-EU4DR3040509035-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11937.0	11937.0	11937.0	11937.0	11937.0
2.5°	11857.9	11849.7	11854.4	11860.2	11862.6
5°	11550.2	11539.1	11536.7	11560.7	11550.8
7.5°	10929.5	10913.7	10889.7	10944.2	10995.2
10°	9889.9	9872.3	9820.1	9845.9	9887.5
12.5°	8355.0	8298.1	8296.9	8379.0	8367.8
15°	6328.9	6252.7	6294.9	6274.4	6263.3
17.5°	4256.0	4226.7	4283.0	4266.0	4192.7
20°	3061.6	3069.2	3176.5	3122.6	3057.5
22.5°	2234.1	2261.6	2388.8	2249.9	2198.9
25°	1487.4	1543.7	1677.3	1504.4	1457.0
27.5°	914.8	940.6	1076.0	903.1	877.3
30°	569.1	556.2	620.1	532.1	495.8
32.5°	373.3	356.9	377.4	338.7	309.4
35°	249.7	254.9	239.1	237.4	200.4
37.5°	155.9	179.3	158.2	168.8	128.9
40°	100.8	130.1	111.9	123.7	94.9
42.5°	82.6	100.2	92.0	97.9	84.4
45°	65.6	81.5	81.5	81.5	66.2
47.5°	36.3	54.5	69.7	55.7	38.7
50°	20.5	27.5	53.9	28.7	21.7
52.5°	14.1	15.8	36.9	16.4	14.7
55°	10.5	11.1	19.9	11.7	11.1
57.5°	8.2	8.8	10.5	8.8	8.2
60°	6.4	6.4	7.6	7.0	6.4
62.5°	4.7	4.7	5.3	4.7	4.7
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.8	2.3	2.3	2.3	2.3
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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)