

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: P744804

Luminaire Tested: LD4D25D010-EU4DR1515309024-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744804
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: LD4D25D010-EU4DR1515309024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2320.5 lumens
Efficiency: N/A
Efficacy: 92.5 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): 25.1
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

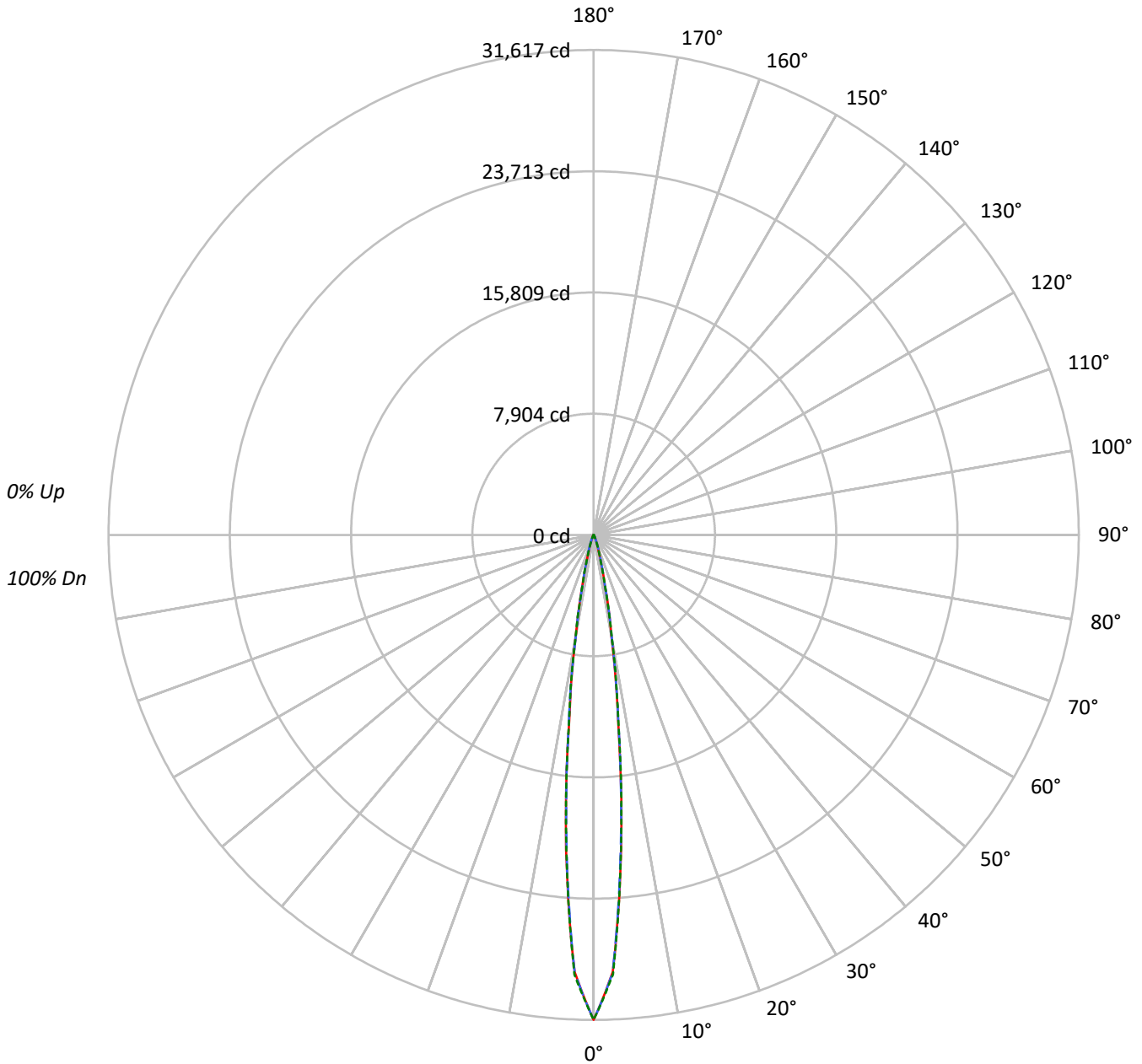


Downlight



TEST NUMBER: P744804
CATALOG NUMBER: LD4D25D010-EU4DR1515309024-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P744804

CATALOG NUMBER: LD4D25D010-EU4DR1515309024-4LBS1LI

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°	3557498	3557498	3557498
5°	2090557	2063483	2079805
10°	623929	628305	637916
15°	155196	158218	153337
20°	46434	53774	47416
25°	16367	20854	16577
30°	6013	7915	6110
35°	3014	3399	2919
40°	1903	2088	1903
45°	1407	1498	1407
50°	1120	1120	1120
55°	933	933	933
60°	751	751	751
65°	571	571	571
70°	490	490	490
75°	302	302	408
80°	213	213	213
85°	108	108	108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1498 cd/sqm



TEST NUMBER: P744804

CATALOG NUMBER: LD4D25D010-EU4DR1515309024-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1505.0	64.9
10°-20°	619.1	26.7
20°-30°	123.0	5.3
30°-40°	30.7	1.3
40°-50°	16.1	0.7
50°-60°	12.0	0.5
60°-70°	8.4	0.4
70°-80°	4.8	0.2
80°-90°	1.5	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°	2247.0	96.8
0°-40°	2277.7	98.2
0°-60°	2305.8	99.4
0°-90°	2320.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2320.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31617	31617	31617	31617	31617	
5°	20570	20359	20304	20445	20465	1502
15°	1787	1820	1822	1790	1765	613
25°	210	238	268	237	213	110
35°	42	44	47	44	40	28
45°	20	20	21	20	20	16
55°	13	13	13	13	13	12
65°	8	8	8	8	8	8
75°	4	4	4	4	5	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P744804

CATALOG NUMBER: LD4D25D010-EU4DR1515309024-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	31616.6	31616.6	31616.6	31616.6	31616.6
2.5°	28519.5	28543.6	28552.9	28581.0	28685.4
5°	20570.5	20359.0	20304.1	20444.7	20464.7
7.5°	12185.2	12228.0	12384.6	12419.4	12293.6
10°	6686.8	6741.7	6733.7	6781.9	6836.7
12.5°	3419.7	3376.9	3363.5	3418.4	3342.1
15°	1786.8	1820.3	1821.6	1789.5	1765.4
17.5°	961.0	999.8	1064.1	1011.9	931.6
20°	567.5	602.3	657.2	614.3	579.5
22.5°	350.7	378.8	417.6	384.1	356.0
25°	210.1	238.2	267.7	236.9	212.8
27.5°	124.5	148.6	167.3	147.2	123.1
30°	80.3	93.7	105.7	92.4	81.6
32.5°	56.2	61.6	66.9	61.6	56.2
35°	41.5	44.2	46.8	44.2	40.2
37.5°	32.1	34.8	36.1	33.5	30.8
40°	26.8	28.1	29.4	28.1	26.8
42.5°	22.8	24.1	24.1	24.1	22.8
45°	20.1	20.1	21.4	20.1	20.1
47.5°	17.4	17.4	18.7	17.4	17.4
50°	16.1	16.1	16.1	16.1	16.1
52.5°	14.7	14.7	14.7	14.7	14.7
55°	13.4	13.4	13.4	13.4	13.4
57.5°	12.0	12.0	12.0	12.0	12.0
60°	10.7	10.7	10.7	10.7	10.7
62.5°	9.4	9.4	9.4	9.4	9.4
65°	8.0	8.0	8.0	8.0	8.0
67.5°	8.0	8.0	8.0	8.0	8.0
70°	6.7	6.7	6.7	6.7	6.7
72.5°	5.4	5.4	5.4	5.4	5.4
75°	4.0	4.0	4.0	4.0	5.4
77.5°	4.0	4.0	4.0	4.0	4.0
80°	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7
85°	1.3	1.3	1.3	1.3	1.3
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)