

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



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: P746023

Luminaire Tested: LD4D30D010-EU4DR3020359040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746023
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: LD4D30D010-EU4DR3020359040-4LBDP1MW
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: 2531.0 lumens
Efficiency: N/A
Efficacy: 87.3 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): 29
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

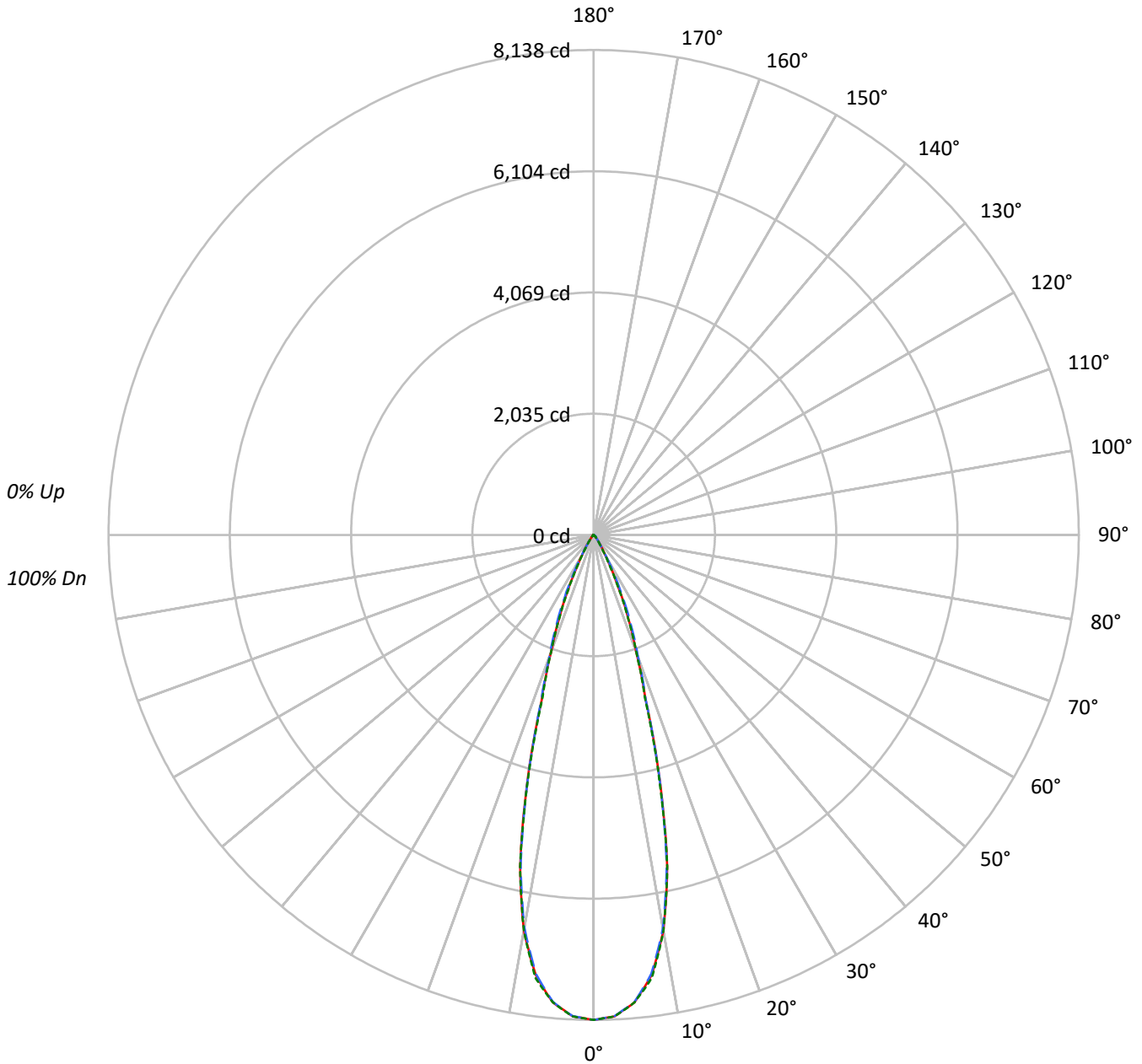


Downlight



TEST NUMBER: P746023
CATALOG NUMBER: LD4D30D010-EU4DR3020359040-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P746023

CATALOG NUMBER: LD4D30D010-EU4DR3020359040-4LBDP1MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	622941	622941	622941
5°	605059	604352	605089
10°	524071	520379	523947
15°	341928	340090	338386
20°	170023	176401	169803
25°	85647	96584	83890
30°	34293	37360	29874
35°	15904	15231	12764
40°	6875	7624	6465
45°	4839	6008	4882
50°	1667	4382	1762
55°	961	1815	1014
60°	674	796	674
65°	435	435	435
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6008 cd/sqm



TEST NUMBER: P746023

CATALOG NUMBER: LD4D30D010-EU4DR3020359040-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.6	28.3
10°-20°	1152.6	45.5
20°-30°	498.1	19.7
30°-40°	113.5	4.5
40°-50°	39.0	1.5
50°-60°	9.5	0.4
60°-70°	2.5	0.1
70°-80°	0.3	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°	2366.3	93.5
0°-40°	2479.8	98.0
0°-60°	2528.3	99.9
0°-90°	2531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8138	8138	8138	8138	8138	
5°	7875	7867	7866	7882	7875	716
15°	4315	4263	4292	4278	4270	1155
25°	1014	1052	1144	1026	993	485
35°	170	174	163	162	137	115
45°	45	56	56	56	45	32
55°	7	8	14	8	8	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P746023

CATALOG NUMBER: LD4D30D010-EU4DR3020359040-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8138.4	8138.4	8138.4	8138.4	8138.4
2.5°	8084.5	8078.9	8082.0	8086.1	8087.7
5°	7874.7	7867.1	7865.5	7881.9	7875.1
7.5°	7451.6	7440.7	7424.4	7461.5	7496.3
10°	6742.7	6730.7	6695.2	6712.7	6741.1
12.5°	5696.2	5657.5	5656.7	5712.6	5705.0
15°	4314.9	4263.0	4291.7	4277.8	4270.2
17.5°	2901.7	2881.7	2920.0	2908.5	2858.5
20°	2087.3	2092.5	2165.6	2128.9	2084.6
22.5°	1523.1	1541.9	1628.6	1534.0	1499.2
25°	1014.1	1052.5	1143.6	1025.7	993.3
27.5°	623.7	641.3	733.6	615.8	598.2
30°	388.0	379.2	422.7	362.8	338.0
32.5°	254.5	243.3	257.3	231.0	211.0
35°	170.2	173.8	163.0	161.8	136.6
37.5°	106.3	122.3	107.9	115.0	87.9
40°	68.8	88.7	76.3	84.3	64.7
42.5°	56.3	68.4	62.7	66.7	57.5
45°	44.7	55.5	55.5	55.5	45.1
47.5°	24.8	37.2	47.6	38.0	26.4
50°	14.0	18.8	36.8	19.6	14.8
52.5°	9.6	10.8	25.2	11.2	10.0
55°	7.2	7.6	13.6	8.0	7.6
57.5°	5.6	6.0	7.2	6.0	5.6
60°	4.4	4.4	5.2	4.8	4.4
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.4	2.4	2.4	2.4	2.4
67.5°	1.2	1.6	1.6	1.6	1.6
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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)