

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: P745973

Luminaire Tested: LD4D30D010-EU4DR3020359024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745973
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-EU4DR3020359024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2401.8 lumens
Efficiency: N/A
Efficacy: 82.8 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 (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

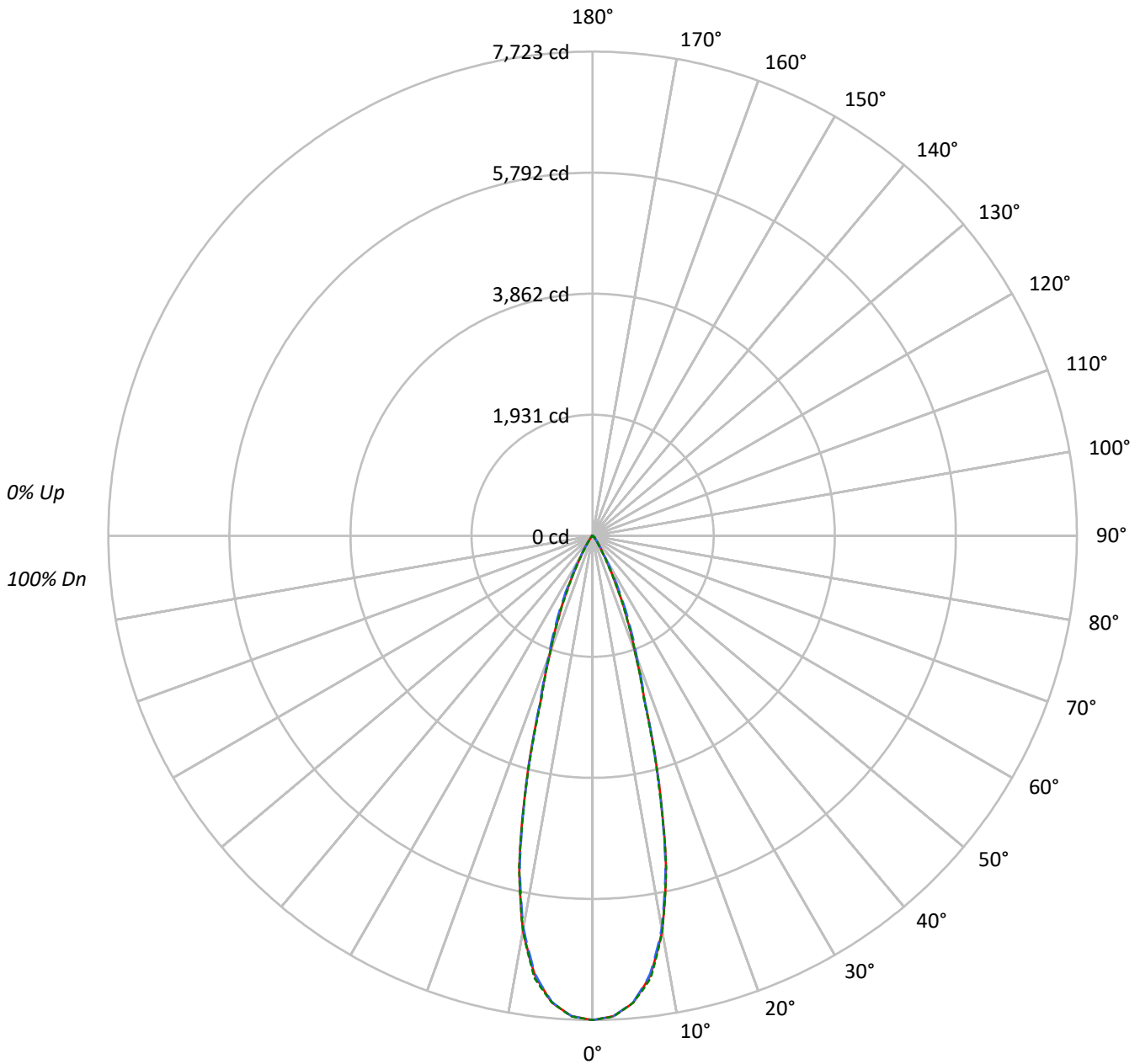


Downlight



TEST NUMBER: P745973
CATALOG NUMBER: LD4D30D010-EU4DR3020359024-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P745973

CATALOG NUMBER: LD4D30D010-EU4DR3020359024-4LBS1H

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																			
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°	591137	591137	591137
5°	574171	573495	574194
10°	497318	493805	497194
15°	324479	322727	321111
20°	161339	167400	161128
25°	81272	91652	79609
30°	32543	35460	28354
35°	15091	14456	12119
40°	6515	7234	6135
45°	4601	5705	4644
50°	1584	4156	1667
55°	907	1721	961
60°	643	750	643
65°	417	417	417
70°	246	157	246
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5705 cd/sqm



TEST NUMBER: P745973

CATALOG NUMBER: LD4D30D010-EU4DR3020359024-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.1	28.3
10°-20°	1093.7	45.5
20°-30°	472.6	19.7
30°-40°	107.7	4.5
40°-50°	37.0	1.5
50°-60°	9.0	0.4
60°-70°	2.3	0.1
70°-80°	0.2	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°	2245.5	93.5
0°-40°	2353.2	98.0
0°-60°	2399.2	99.9
0°-90°	2401.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2401.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7723	7723	7723	7723	7723	
5°	7473	7465	7464	7480	7473	680
15°	4095	4045	4073	4059	4052	1096
25°	962	999	1085	973	943	461
35°	162	165	155	154	130	110
45°	42	53	53	53	43	30
55°	7	7	13	8	7	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: P745973

CATALOG NUMBER: LD4D30D010-EU4DR3020359024-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7722.9	7722.9	7722.9	7722.9	7722.9
2.5°	7671.7	7666.4	7669.4	7673.2	7674.7
5°	7472.7	7465.4	7463.9	7479.5	7473.0
7.5°	7071.1	7060.9	7045.3	7080.6	7113.6
10°	6398.5	6387.1	6353.3	6370.0	6396.9
12.5°	5405.4	5368.7	5367.9	5421.0	5413.8
15°	4094.7	4045.3	4072.6	4059.4	4052.2
17.5°	2753.5	2734.6	2771.0	2760.0	2712.6
20°	1980.7	1985.7	2055.1	2020.2	1978.1
22.5°	1445.4	1463.2	1545.5	1455.6	1422.6
25°	962.3	998.7	1085.2	973.3	942.6
27.5°	591.9	608.6	696.1	584.3	567.6
30°	368.2	359.8	401.2	344.3	320.8
32.5°	241.6	230.9	244.2	219.2	200.2
35°	161.5	165.0	154.7	153.6	129.7
37.5°	100.8	116.0	102.4	109.2	83.4
40°	65.2	84.2	72.4	80.0	61.4
42.5°	53.5	64.9	59.5	63.3	54.6
45°	42.5	52.7	52.7	52.7	42.9
47.5°	23.5	35.2	45.1	36.0	25.0
50°	13.3	17.8	34.9	18.6	14.0
52.5°	9.1	10.3	23.9	10.6	9.5
55°	6.8	7.2	12.9	7.6	7.2
57.5°	5.3	5.7	6.8	5.7	5.3
60°	4.2	4.2	4.9	4.5	4.2
62.5°	3.0	3.0	3.4	3.0	3.0
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	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)