

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: P741874

Luminaire Tested: LD4D10D010-EU4DR150210IC9024-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741874
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: LD4D10D010-EU4DR150210IC9024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 761.1 lumens
Efficiency: N/A
Efficacy: 65.1 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): 11.7
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

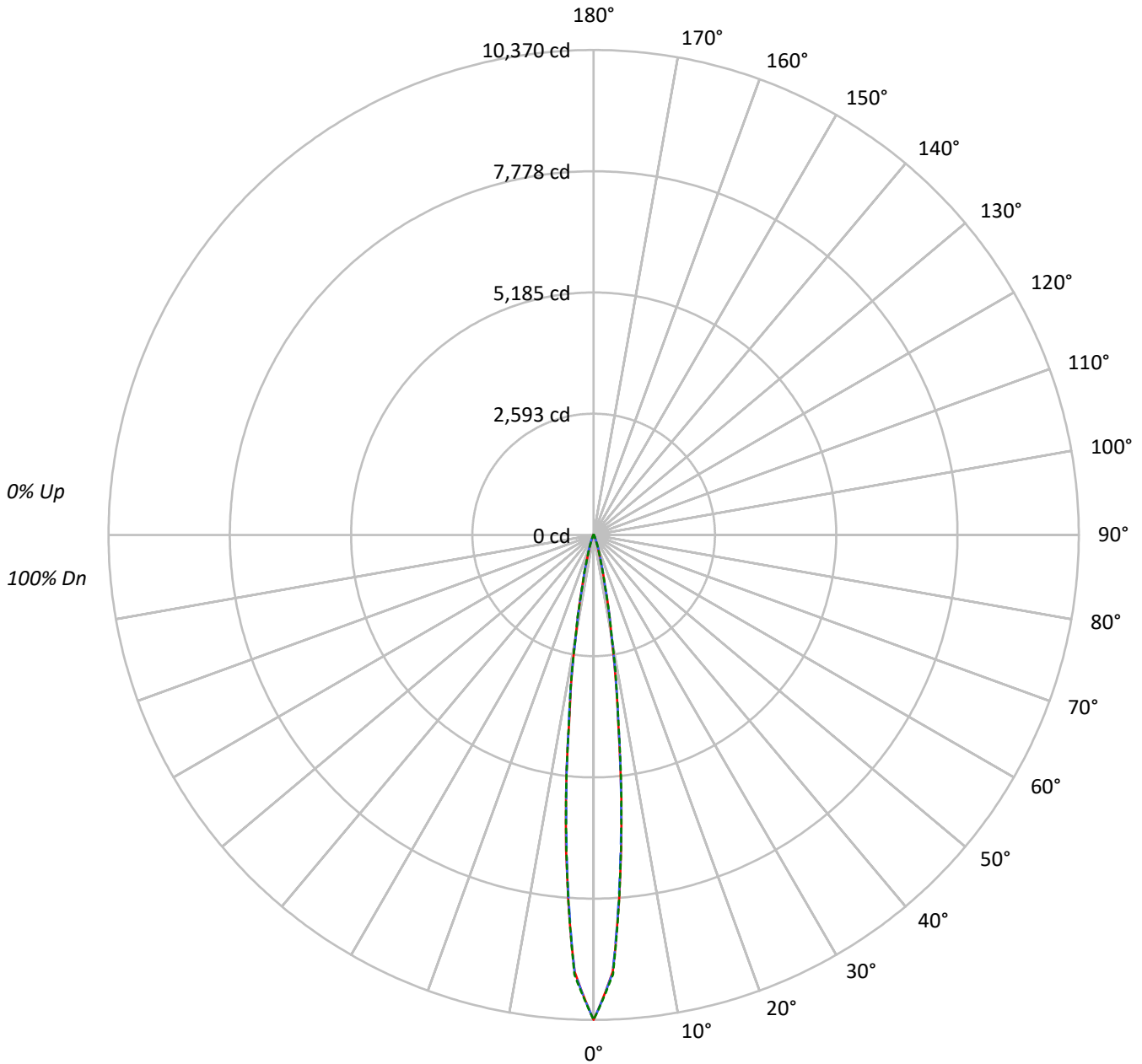


Downlight



TEST NUMBER: P741874
CATALOG NUMBER: LD4D10D010-EU4DR150210IC9024-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P741874

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9024-4LBSQW1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98					98			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96					96			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94					94			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93					93			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92					92			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90					90			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89					89			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88					88			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87					87			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86					86			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1166787	1166787	1166787
5°	685660	676777	682133
10°	204633	206070	209224
15°	50898	51897	50290
20°	15227	17633	15555
25°	5367	6840	5437
30°	1969	2598	2007
35°	988	1118	959
40°	625	689	625
45°	462	490	462
50°	369	369	369
55°	306	306	306
60°	246	246	246
65°	186	186	186
70°	161	161	161
75°	98	98	136
80°	71	71	71
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 490 cd/sqm



TEST NUMBER: P741874

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9024-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.6	64.9
10°-20°	203.0	26.7
20°-30°	40.3	5.3
30°-40°	10.1	1.3
40°-50°	5.3	0.7
50°-60°	3.9	0.5
60°-70°	2.8	0.4
70°-80°	1.6	0.2
80°-90°	0.5	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°	737.0	96.8
0°-40°	747.0	98.2
0°-60°	756.3	99.4
0°-90°	761.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	761.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10370	10370	10370	10370	10370	
5°	6747	6677	6659	6705	6712	493
15°	586	597	598	587	579	201
25°	69	78	88	78	70	36
35°	14	14	15	14	13	9
45°	7	7	7	7	7	5
55°	4	4	4	4	4	4
65°	3	3	3	3	3	3
75°	1	1	1	1	2	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P741874

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9024-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10369.6	10369.6	10369.6	10369.6	10369.6
2.5°	9353.8	9361.7	9364.7	9374.0	9408.2
5°	6746.7	6677.3	6659.3	6705.4	6712.0
7.5°	3996.5	4010.5	4061.9	4073.3	4032.0
10°	2193.1	2211.1	2208.5	2224.3	2242.3
12.5°	1121.6	1107.5	1103.2	1121.2	1096.1
15°	586.0	597.0	597.5	586.9	579.0
17.5°	315.2	327.9	349.0	331.9	305.5
20°	186.1	197.5	215.5	201.5	190.1
22.5°	115.0	124.2	137.0	126.0	116.8
25°	68.9	78.1	87.8	77.7	69.8
27.5°	40.8	48.7	54.9	48.3	40.4
30°	26.3	30.7	34.7	30.3	26.8
32.5°	18.4	20.2	21.9	20.2	18.4
35°	13.6	14.5	15.4	14.5	13.2
37.5°	10.5	11.4	11.9	11.0	10.1
40°	8.8	9.2	9.7	9.2	8.8
42.5°	7.5	7.9	7.9	7.9	7.5
45°	6.6	6.6	7.0	6.6	6.6
47.5°	5.7	5.7	6.1	5.7	5.7
50°	5.3	5.3	5.3	5.3	5.3
52.5°	4.8	4.8	4.8	4.8	4.8
55°	4.4	4.4	4.4	4.4	4.4
57.5°	4.0	4.0	4.0	4.0	4.0
60°	3.5	3.5	3.5	3.5	3.5
62.5°	3.1	3.1	3.1	3.1	3.1
65°	2.6	2.6	2.6	2.6	2.6
67.5°	2.6	2.6	2.6	2.6	2.6
70°	2.2	2.2	2.2	2.2	2.2
72.5°	1.8	1.8	1.8	1.8	1.8
75°	1.3	1.3	1.3	1.3	1.8
77.5°	1.3	1.3	1.3	1.3	1.3
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4
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)