

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: P743316

Luminaire Tested: LD4D15D010-EU4DR400215IC9040-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D15D010-EU4DR400215IC9040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1299.4 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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

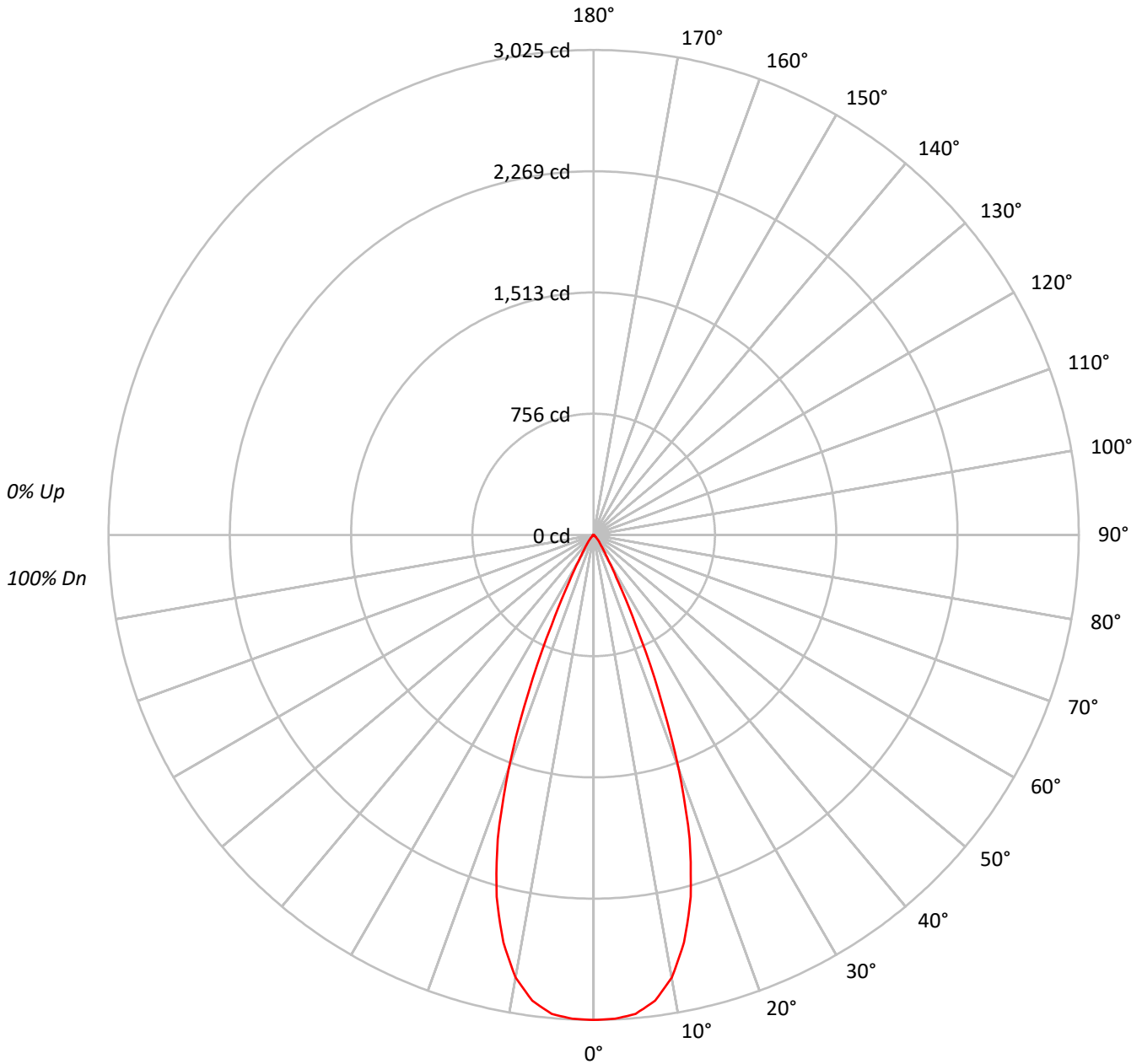


Downlight



TEST NUMBER: P743316
CATALOG NUMBER: LD4D15D010-EU4DR400215IC9040-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P743316

CATALOG NUMBER: LD4D15D010-EU4DR400215IC9040-4LBSQW1B

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				100															
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96				96															
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92				92															
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88				88															
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84				84															
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81				81															
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77				77															
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74				74															
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72				72															
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69				69															
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67				67															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	330536
5°	328936
10°	310916
15°	264316
20°	180153
25°	75167
30°	23643
35°	10977
40°	6076
45°	2781
50°	1360
55°	743
60°	393
65°	129
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2781 cd/sqm



TEST NUMBER: P743316

CATALOG NUMBER: LD4D15D010-EU4DR400215IC9040-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.0	21.6
10°-20°	627.4	48.3
20°-30°	314.0	24.2
30°-40°	57.6	4.4
40°-50°	15.9	1.2
50°-60°	3.8	0.3
60°-70°	0.7	0.1
70°-80°	0.0	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°	1221.4	94.0
0°-40°	1279.0	98.4
0°-60°	1298.7	99.9
0°-90°	1299.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1299.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3025	
5°	2999	280
15°	2337	627
25°	624	314
35°	82	58
45°	18	16
55°	4	4
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P743316

CATALOG NUMBER: LD4D15D010-EU4DR400215IC9040-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	3025.2
2.5°	3020.8
5°	2999.1
7.5°	2929.8
10°	2802.4
12.5°	2603.7
15°	2336.7
17.5°	1989.4
20°	1549.4
22.5°	1056.3
25°	623.5
27.5°	329.6
30°	187.4
32.5°	121.1
35°	82.3
37.5°	58.8
40°	42.6
42.5°	29.2
45°	18.0
47.5°	11.5
50°	8.0
52.5°	5.7
55°	3.9
57.5°	2.5
60°	1.8
62.5°	1.1
65°	0.5
67.5°	0.3
70°	0.2
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	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



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

Scaled Data Report



— 0°-180°

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)