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: P745653

Luminaire Tested: LD4D25D010-EU4DR7020359024-4LBCSSQMB

Issue Date: 1/31/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P745653
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/31/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LD4D25D010-EU4DR7020359024-4LBCSSQMB
Description:	4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 70° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2063.9 lumens
Efficiency:	N/A
Efficacy:	82.2 lumens/watt
Spacing Criteria (0/90/45):	1.1 / 1.1 / 1.04
Luminous Opening:	Circular (Dia: 0.35' x H: 0')
CIE Type:	Direct

Input Watts (W):	25.1
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

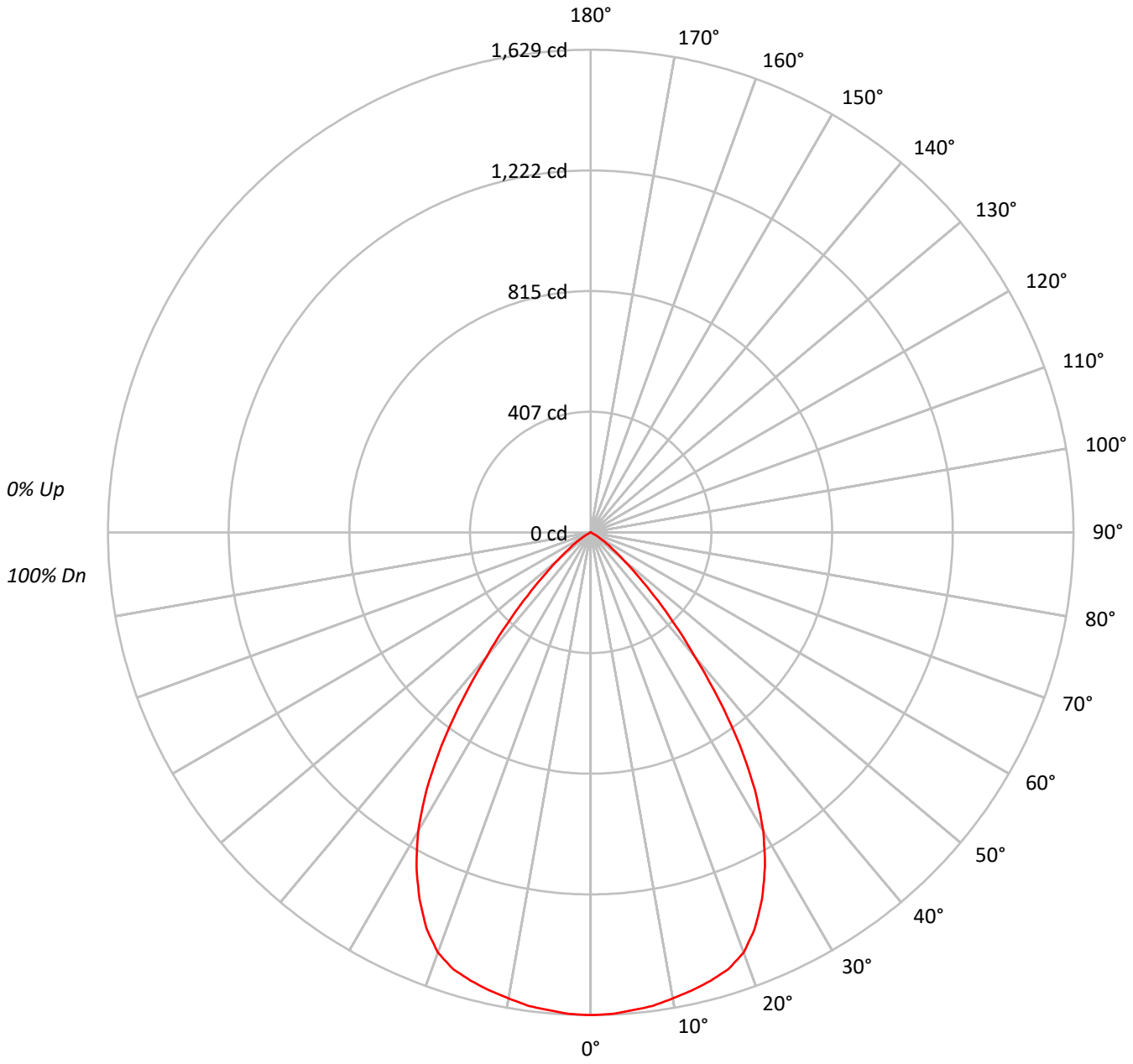
Downlight

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P745653
CATALOG NUMBER: LD4D25D010-EU4DR7020359024-4LBCSSQMB

Luminous Intensity Polar Plot



TEST NUMBER: P745653
CATALOG NUMBER: LD4D25D010-EU4DR7020359024-4LBCSSQMB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	177986
5°	177547
10°	177159
15°	177116
20°	175386
25°	164740
30°	146867
35°	117097
40°	77762
45°	46494
50°	24103
55°	12668
60°	4480
65°	78
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 46494 cd/sqm

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P745653
CATALOG NUMBER: LD4D25D010-EU4DR7020359024-4LBCSSQMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	7.5
10°-20°	441.5	21.4
20°-30°	622.8	30.2
30°-40°	537.7	26.1
40°-50°	240.8	11.7
50°-60°	63.0	3.1
60°-70°	4.1	0.2
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°	1218.3	59.0
0°-40°	1756.0	85.1
0°-60°	2059.8	99.8
0°-90°	2063.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2063.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1629	
5°	1619	154
15°	1566	442
25°	1366	623
35°	878	538
45°	301	241
55°	66	63
65°	0	4
75°	0	0
85°	0	0
90°	0	

TEST NUMBER: P745653
CATALOG NUMBER: LD4D25D010-EU4DR7020359024-4LBCSSQMB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1629.0
2.5°	1627.2
5°	1618.8
7.5°	1611.7
10°	1596.8
12.5°	1583.3
15°	1565.8
17.5°	1545.5
20°	1508.4
22.5°	1447.1
25°	1366.5
27.5°	1273.1
30°	1164.1
32.5°	1030.9
35°	877.9
37.5°	709.2
40°	545.2
42.5°	414.2
45°	300.9
47.5°	207.4
50°	141.8
52.5°	97.9
55°	66.5
57.5°	40.1
60°	20.5
62.5°	6.4
65°	0.3
67.5°	0.0
70°	0.0
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

Report Generated By 670245859 / DESKTOP-T8S5UU9

0°-180°

(END OF REPORT)