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: P745664

Luminaire Tested: LD4D25D010-EU4DR7020359024-4LBSQW1B

Issue Date: 2/5/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P745664
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	2/5/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LD4D25D010-EU4DR7020359024-4LBSQW1B
Description:	4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1296.2 lumens
Efficiency:	N/A
Efficacy:	51.6 lumens/watt
Spacing Criteria (0/90/45):	0.88 / 0.88 / 0.82
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

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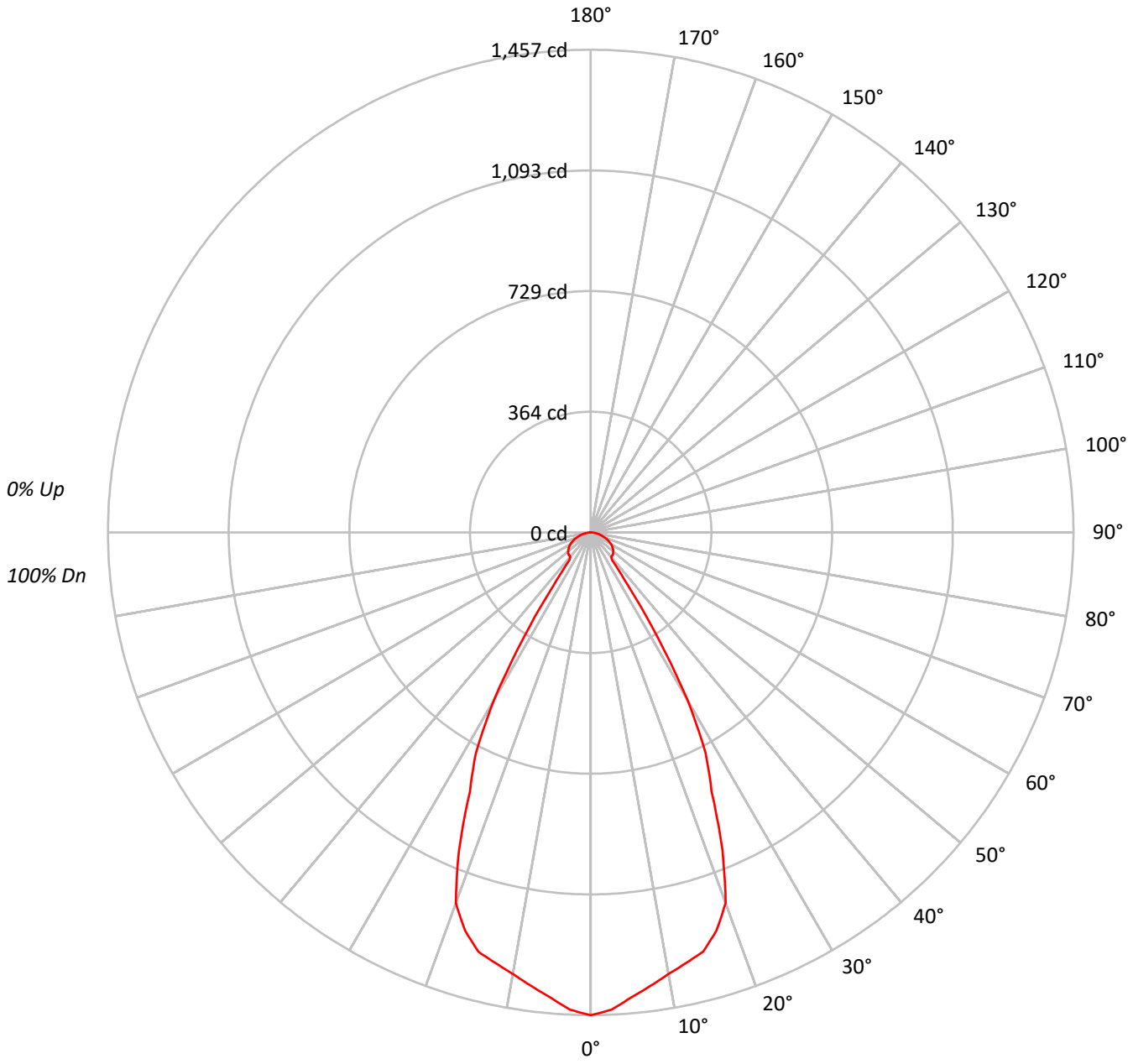
Luminous Intensity Polar Plot



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	159226
5°	154493
10°	150188
15°	148215
20°	138400
25°	103979
30°	73503
35°	26036
40°	13692
45°	14587
50°	15094
55°	15373
60°	15471
65°	15150
70°	14280
75°	13256
80°	11766
85°	9528

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 57.5°
Luminance: 15475 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	10.3
10°-20°	364.4	28.1
20°-30°	401.4	31.0
30°-40°	153.3	11.8
40°-50°	72.4	5.6
50°-60°	72.0	5.6
60°-70°	57.6	4.4
70°-80°	33.1	2.6
80°-90°	9.0	0.7
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°	898.7	69.3
0°-40°	1052.0	81.2
0°-60°	1196.4	92.3
0°-90°	1296.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1296.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1457	
5°	1409	133
15°	1310	364
25°	862	401
35°	195	153
45°	94	72
55°	81	72
65°	59	58
75°	31	33
85°	8	9
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1457.3
2.5°	1442.1
5°	1408.6
7.5°	1380.7
10°	1353.7
12.5°	1330.9
15°	1310.3
17.5°	1260.7
20°	1190.3
22.5°	1038.5
25°	862.5
27.5°	750.8
30°	582.6
32.5°	376.3
35°	195.2
37.5°	105.4
40°	96.0
42.5°	95.3
45°	94.4
47.5°	92.3
50°	88.8
52.5°	84.9
55°	80.7
57.5°	76.1
60°	70.8
62.5°	64.9
65°	58.6
67.5°	51.7
70°	44.7
72.5°	37.8
75°	31.4
77.5°	24.7
80°	18.7
82.5°	13.2
85°	7.6
87.5°	3.0
90°	0.0

Report Generated By 670245859 / DESKTOP-T8S5UU9

0°-180°

(END OF REPORT)