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: P781763

Luminaire Tested: LER4D50D010-EC4DR4040509027-4LBS1MW

Issue Date: 1/30/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P781763
	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:	LER4D50D010-EC4DR4040509027-4LBS1MW
Description:	4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 40° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4903.8 lumens
Efficiency:	N/A
Efficacy:	104.3 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):	47
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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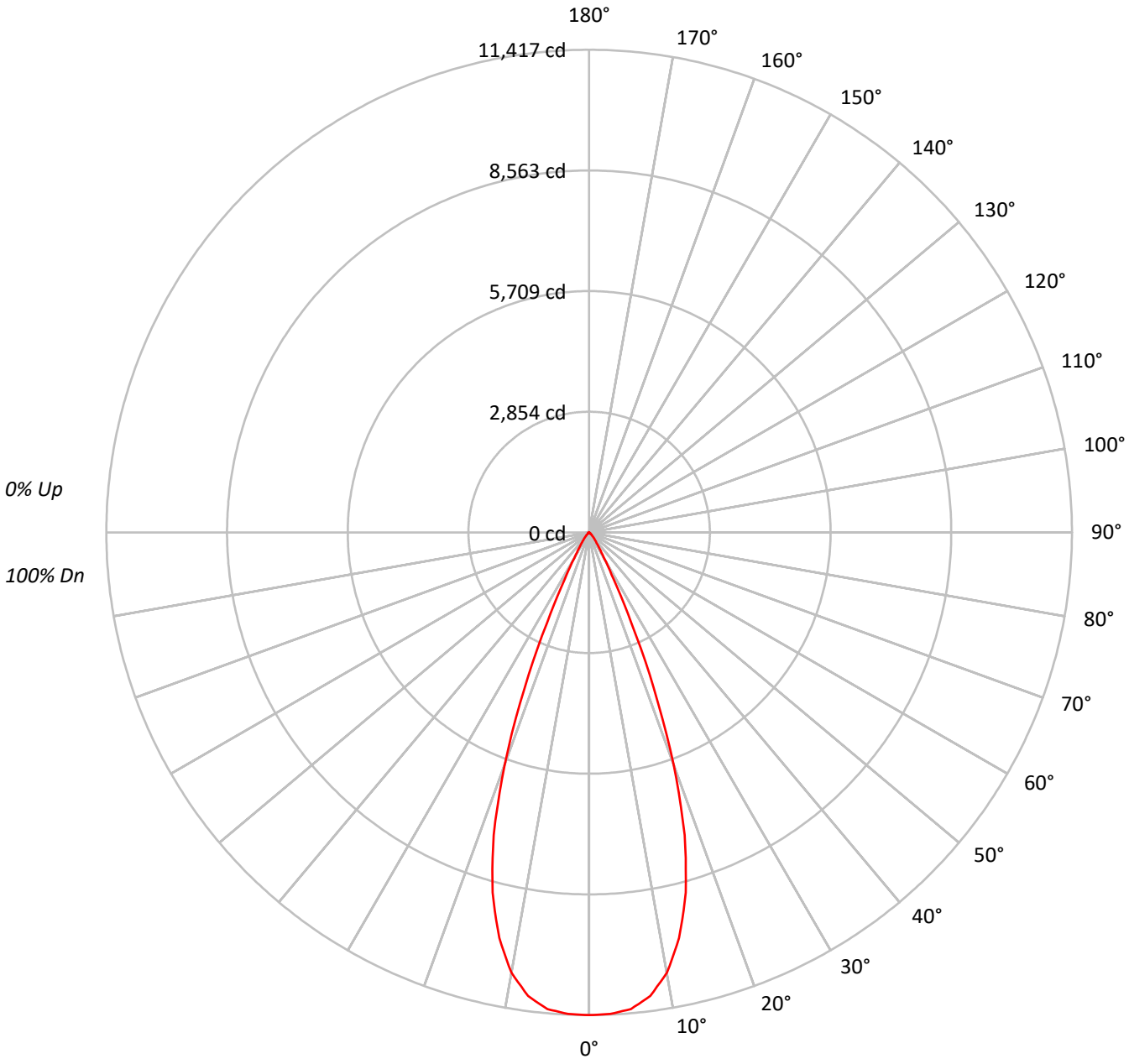
Luminous Intensity Polar Plot



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1247474
5°	1241403
10°	1173401
15°	997539
20°	679894
25°	283680
30°	89198
35°	41455
40°	22921
45°	10507
50°	5099
55°	2800
60°	1464
65°	517
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 10507 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1056.9	21.6
10°-20°	2367.7	48.3
20°-30°	1185.2	24.2
30°-40°	217.3	4.4
40°-50°	59.9	1.2
50°-60°	14.1	0.3
60°-70°	2.7	0.1
70°-80°	0.1	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°	4609.7	94.0
0°-40°	4827.0	98.4
0°-60°	4901.0	99.9
0°-90°	4903.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4903.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11417	
5°	11319	###
15°	8819	2368
25°	2353	1185
35°	311	217
45°	68	60
55°	15	14
65°	2	3
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	11417.4
2.5°	11400.7
5°	11318.6
7.5°	11057.2
10°	10576.3
12.5°	9826.6
15°	8818.8
17.5°	7508.2
20°	5847.4
22.5°	3986.5
25°	2353.1
27.5°	1243.9
30°	707.0
32.5°	456.9
35°	310.8
37.5°	222.1
40°	160.7
42.5°	110.1
45°	68.0
47.5°	43.4
50°	30.0
52.5°	21.3
55°	14.7
57.5°	9.3
60°	6.7
62.5°	4.0
65°	2.0
67.5°	1.3
70°	0.7
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

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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0°-180°

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(END OF REPORT)