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: P781842

Luminaire Tested: LER4D50D010-EC4DR5540509035-4LBS1LI

Issue Date: 1/30/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P781842
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/30/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LER4D50D010-EC4DR5540509035-4LBS1LI
Description:	4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 55° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5527.2 lumens
Efficiency:	N/A
Efficacy:	117.6 lumens/watt
Spacing Criteria (0/90/45):	0.89 / 0.89 / 0.87
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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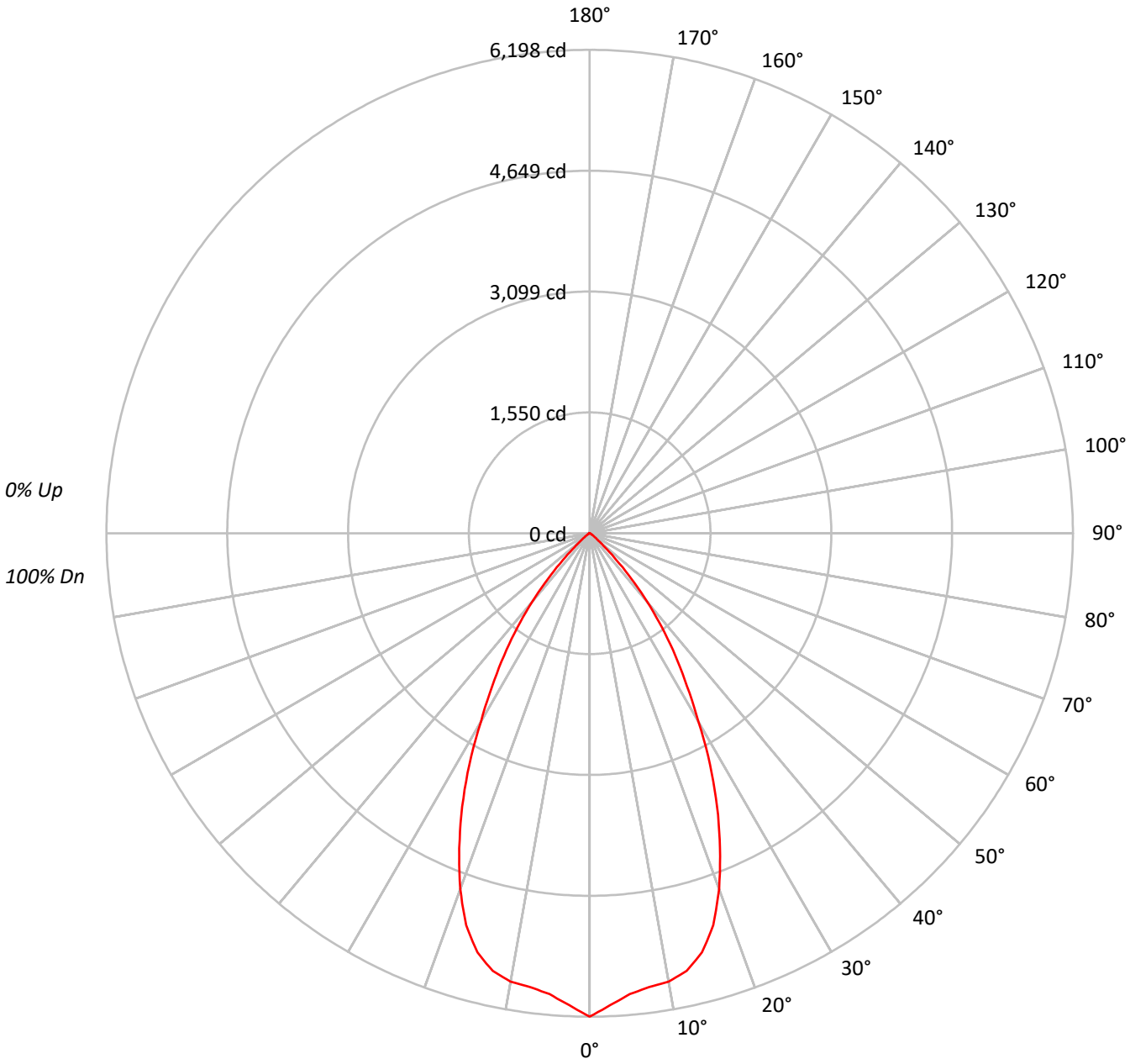
Luminous Intensity Polar Plot



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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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	88	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54
10	72	62	56	52	71	61	56	52	61	56	52	60	55	52	59	55	52	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	677187
5°	650292
10°	647838
15°	629225
20°	564191
25°	466274
30°	352211
35°	255388
40°	163439
45°	74648
50°	24409
55°	10534
60°	4523
65°	595
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 74648 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.2	10.2
10°-20°	1539.8	27.9
20°-30°	1754.7	31.7
30°-40°	1194.5	21.6
40°-50°	411.6	7.4
50°-60°	56.9	1.0
60°-70°	5.5	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°	3858.6	69.8
0°-40°	5053.2	91.4
0°-60°	5521.7	99.9
0°-90°	5527.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5527.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6198	
5°	5929	564
15°	5563	1540
25°	3868	1755
35°	1915	1195
45°	483	412
55°	55	57
65°	2	5
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	6197.9
2.5°	6055.8
5°	5929.1
7.5°	5866.9
10°	5839.2
12.5°	5747.1
15°	5562.7
17.5°	5270.1
20°	4852.3
22.5°	4370.0
25°	3867.7
27.5°	3344.7
30°	2791.7
32.5°	2323.2
35°	1914.7
37.5°	1526.0
40°	1145.9
42.5°	794.1
45°	483.1
47.5°	260.4
50°	143.6
52.5°	85.2
55°	55.3
57.5°	35.3
60°	20.7
62.5°	9.2
65°	2.3
67.5°	0.8
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

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0°-180°

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(END OF REPORT)