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: P777624

Luminaire Tested: LERS4D08D010-EC4DR150210IC9050-4LBS1B

Issue Date: 2/2/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P777624
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	2/2/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LERS4D08D010-EC4DR150210IC9050-4LBS1B
Description:	4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source:	(1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	799.6 lumens
Efficiency:	N/A
Efficacy:	89.8 lumens/watt
Spacing Criteria (0/90/45):	0.22 / 0.22 / 0.23
Luminous Opening:	Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type:	Direct

Input Watts (W):	8.9
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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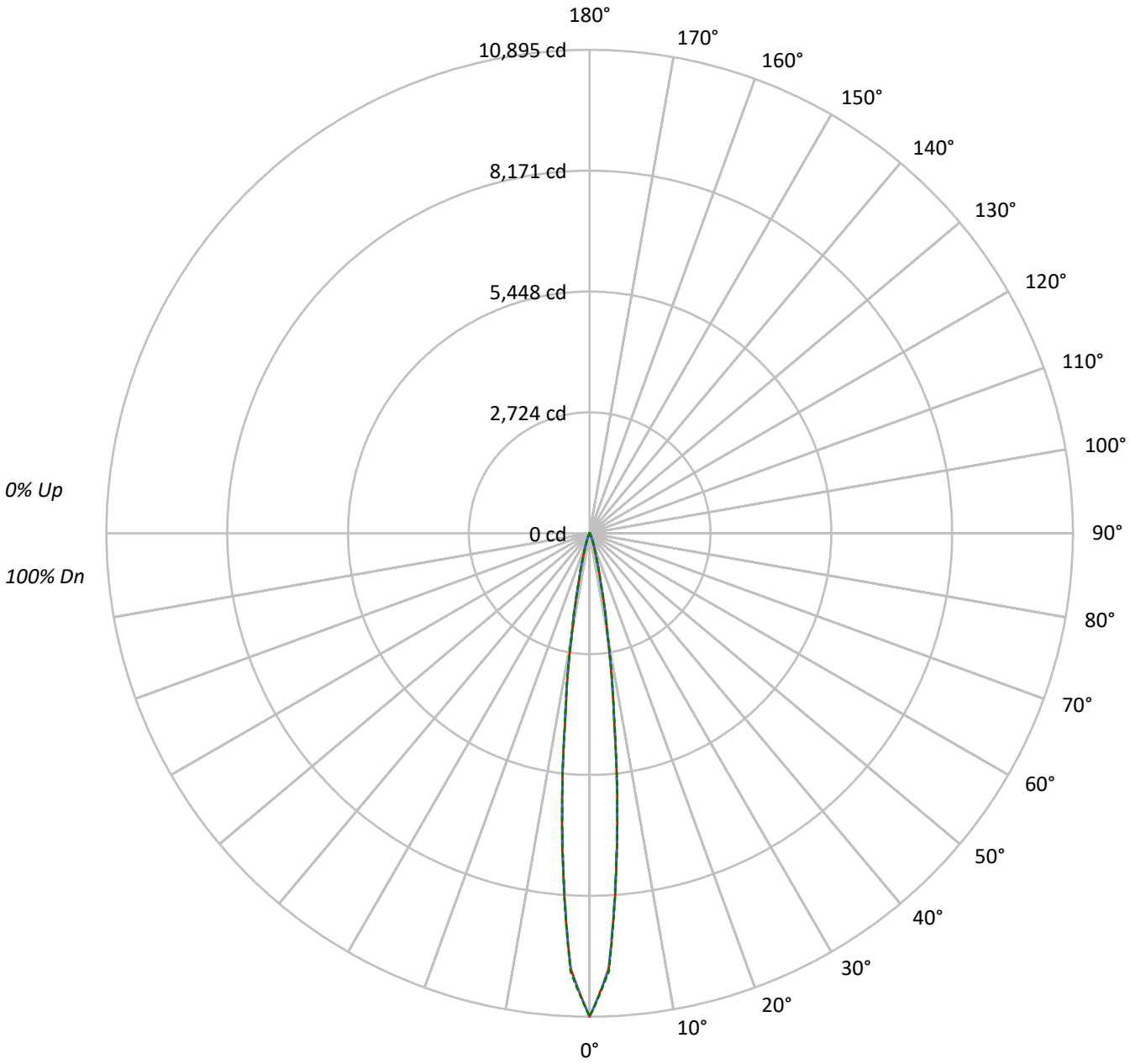
Luminous Intensity Polar Plot



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1225882	1225882	1225882
5°	720386	711057	716677
10°	214999	216511	219823
15°	53478	54520	52835
20°	16005	18533	16340
25°	5640	7182	5710
30°	2074	2726	2104
35°	1038	1169	1002
40°	653	717	653
45°	483	518	483
50°	382	382	382
55°	320	320	320
60°	260	260	260
65°	200	200	200
70°	168	168	168
75°	106	106	136
80°	71	71	71
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
Vertical Angle: 45°
Luminance: 518 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.6	64.9
10°-20°	213.3	26.7
20°-30°	42.4	5.3
30°-40°	10.6	1.3
40°-50°	5.6	0.7
50°-60°	4.1	0.5
60°-70°	2.9	0.4
70°-80°	1.6	0.2
80°-90°	0.5	0.1
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°	774.3	96.8
0°-40°	784.9	98.2
0°-60°	794.6	99.4
0°-90°	799.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	799.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10895	10895	10895	10895	10895	
5°	7088	7016	6997	7045	7052	518
15°	616	627	628	617	608	211
25°	72	82	92	82	73	38
35°	14	15	16	15	14	10
45°	7	7	7	7	7	5
55°	5	5	5	5	5	4
65°	3	3	3	3	3	3
75°	1	1	1	1	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*10894.8*	*10894.8*	*10894.8*	*10894.8*	*10894.8*
2.5°	*9827.5*	9835.8	9839.1	9848.7	9884.7
5°	*7088.4*	7015.5	6996.6	7045.0	7051.9
7.5°	*4198.9*	4213.6	4267.6	4279.6	4236.2
10°	*2304.2*	2323.1	2320.4	2337.0	2355.9
12.5°	*1178.4*	1163.6	1159.0	1177.9	1151.6
15°	*615.7*	627.2	627.7	616.6	608.3
17.5°	*331.2*	344.5	366.7	348.7	321.0
20°	*195.6*	207.5	226.5	211.7	199.7
22.5°	*120.8*	130.5	143.9	132.4	122.7
25°	*72.4*	82.1	92.2	81.6	73.3
27.5°	*42.9*	51.2	57.7	50.7	42.4
30°	*27.7*	32.3	36.4	31.8	28.1
32.5°	*19.4*	21.2	23.1	21.2	19.4
35°	*14.3*	15.2	16.1	15.2	13.8
37.5°	*11.1*	12.0	12.5	11.5	10.6
40°	*9.2*	9.7	10.1	9.7	9.2
42.5°	*7.8*	8.3	8.3	8.3	7.8
45°	*6.9*	6.9	7.4	6.9	6.9
47.5°	*6.0*	6.0	6.5	6.0	6.0
50°	*5.5*	5.5	5.5	5.5	5.5
52.5°	*5.1*	5.1	5.1	5.1	5.1
55°	*4.6*	4.6	4.6	4.6	4.6
57.5°	*4.2*	4.2	4.2	4.2	4.2
60°	*3.7*	3.7	3.7	3.7	3.7
62.5°	*3.2*	3.2	3.2	3.2	3.2
65°	*2.8*	2.8	2.8	2.8	2.8
67.5°	*2.8*	2.8	2.8	2.8	2.8
70°	*2.3*	2.3	2.3	2.3	2.3
72.5°	*1.8*	1.8	1.8	1.8	1.8
75°	*1.4*	1.4	1.4	1.4	1.8
77.5°	*1.4*	1.4	1.4	1.4	1.4
80°	*0.9*	0.9	0.9	0.9	0.9
82.5°	*0.9*	0.9	0.9	0.9	0.9
85°	*0.5*	0.5	0.5	0.5	0.5
87.5°	*0.0*	0.0	0.0	0.0	0.0
90°	*0.0*	0.0	0.0	0.0	0.0

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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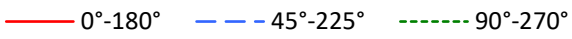

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(END OF REPORT)