

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: P781892

Luminaire Tested: LER4D50D010-EC4DR6540509040-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR6540509040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4383.9 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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

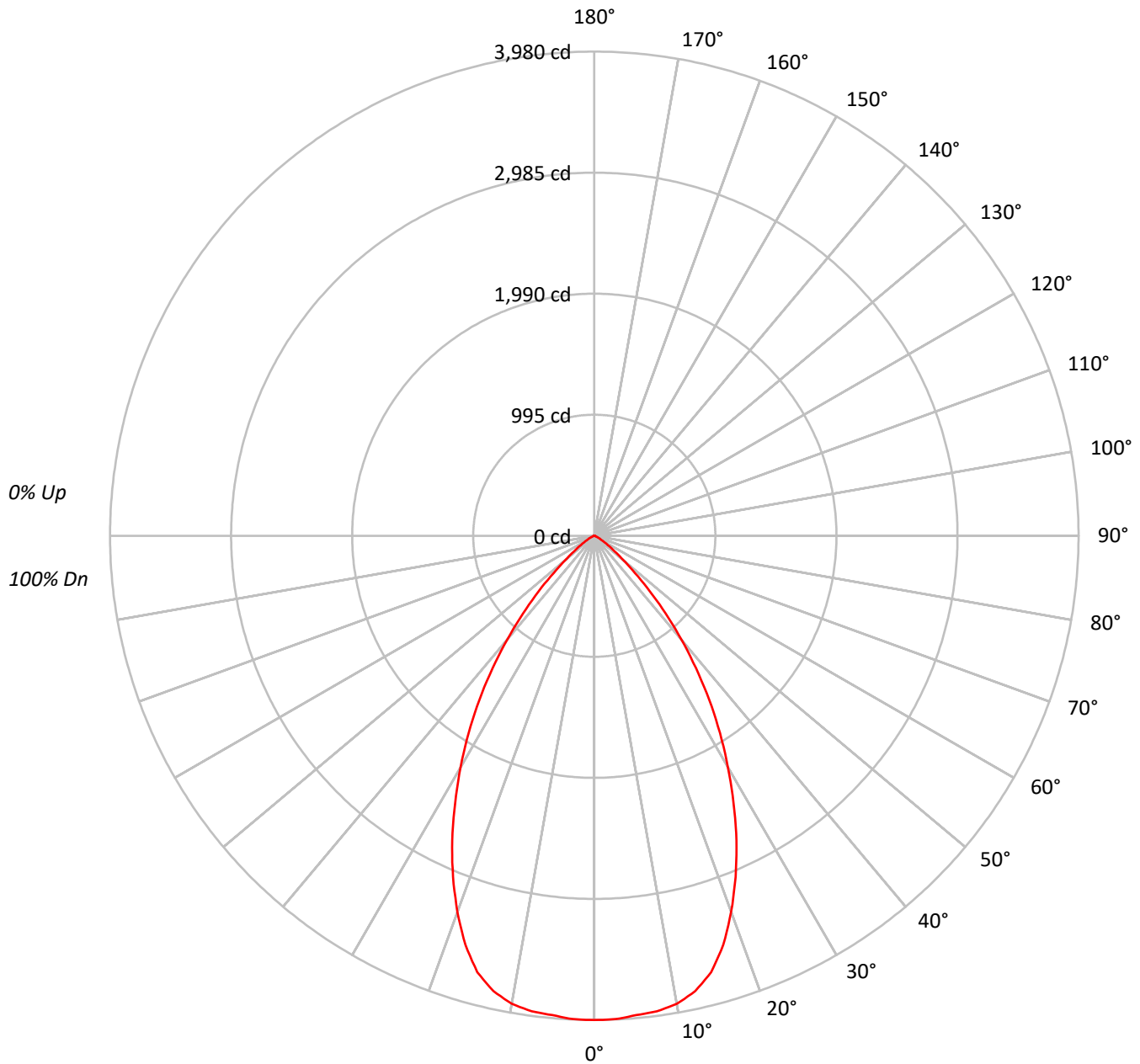


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105		111	108	105	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94		105	100	96	92		97	93	90		94	91	88		91	89	87
3	101	94	88	84		99	92	87	83		90	86	82		87	84	81		85	82	80
4	95	87	81	76		93	86	80	76		84	79	75		82	77	74		80	76	73
5	90	81	74	70		88	80	74	69		78	73	69		76	72	68		75	71	68
6	85	75	69	64		83	74	68	64		73	67	63		71	67	63		70	66	62
7	80	70	64	59		79	69	63	59		68	63	59		67	62	58		66	61	58
8	76	66	59	55		75	65	59	55		64	58	54		63	58	54		62	57	54
9	72	61	55	51		71	61	55	51		60	54	51		59	54	50		58	54	50
10	68	58	52	47		67	57	51	47		57	51	47		56	51	47		55	50	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	232477
5°	231887
10°	231692
15°	224546
20°	204424
25°	178142
30°	148163
35°	117399
40°	84734
45°	53530
50°	27903
55°	14826
60°	7791
65°	4284
70°	1793
75°	1986
80°	1379
85°	1206

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 53530 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.4	8.6
10°-20°	1030.8	23.5
20°-30°	1260.0	28.7
30°-40°	1022.3	23.3
40°-50°	509.5	11.6
50°-60°	142.1	3.2
60°-70°	32.3	0.7
70°-80°	8.4	0.2
80°-90°	2.2	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°	2667.2	60.8
0°-40°	3689.5	84.2
0°-60°	4341.1	99.0
0°-90°	4383.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4383.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3980	
5°	3955	376
15°	3714	1031
25°	2764	1260
35°	1647	1022
45°	648	509
55°	146	142
65°	31	32
75°	9	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3980.5
2.5°	3977.5
5°	3955.3
7.5°	3942.4
10°	3906.8
12.5°	3834.2
15°	3713.7
17.5°	3525.4
20°	3289.1
22.5°	3034.0
25°	2764.4
27.5°	2476.0
30°	2197.0
32.5°	1921.5
35°	1646.6
37.5°	1372.3
40°	1111.4
42.5°	866.9
45°	648.1
47.5°	451.6
50°	307.1
52.5°	211.7
55°	145.6
57.5°	98.3
60°	66.7
62.5°	46.2
65°	31.0
67.5°	15.8
70°	10.5
72.5°	9.9
75°	8.8
77.5°	5.8
80°	4.1
82.5°	2.9
85°	1.8
87.5°	1.2
90°	0.0



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— 0°-180°







(END OF REPORT)