

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: P780385

Luminaire Tested: LER4D20D010-EC4DR7020359050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR7020359050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2100.5 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



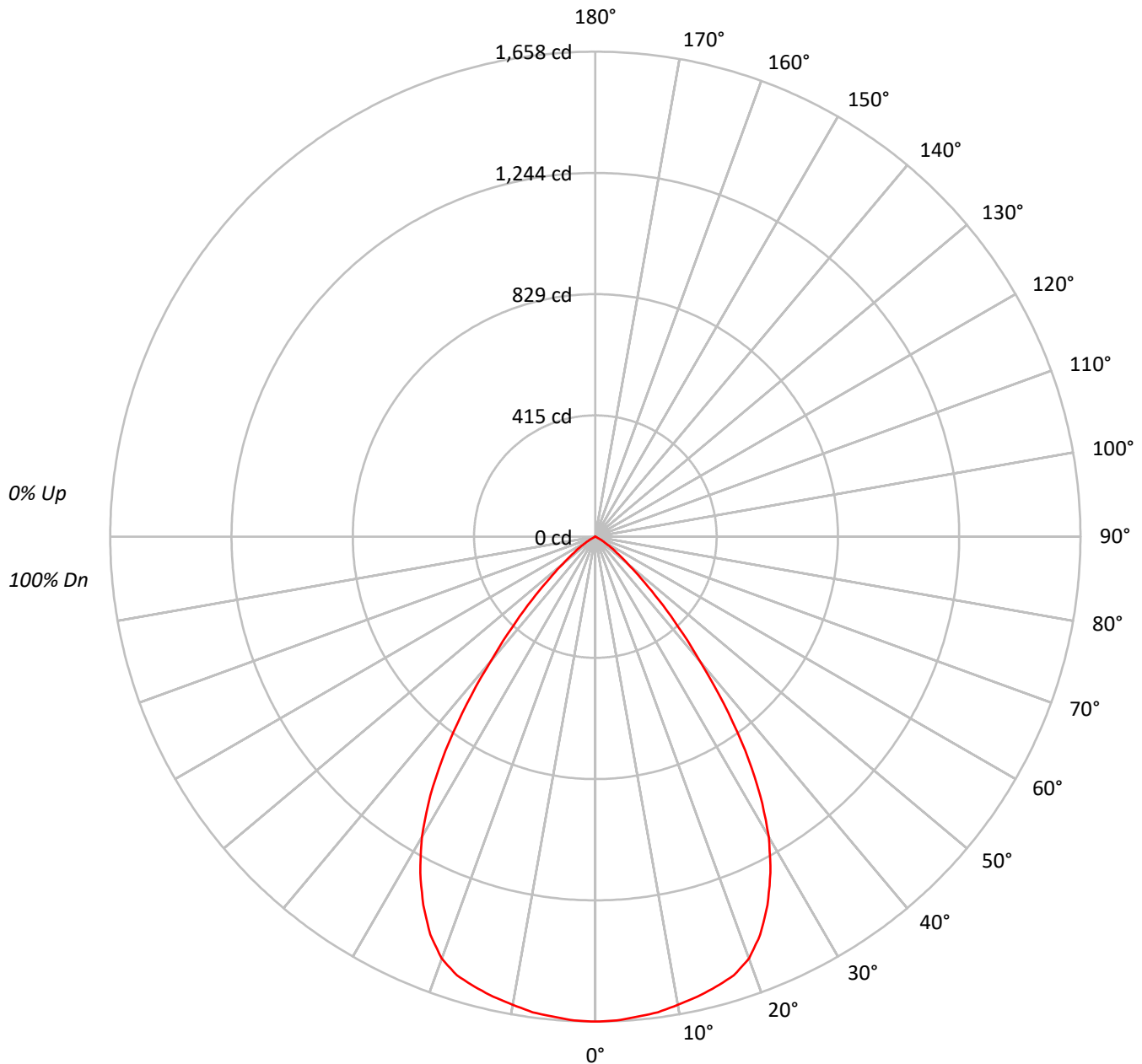
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
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	106	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	85	82		87	84	81		85	82	79
4	95	87	81	76		93	86	80	76		83	78	75		81	77	74		79	76	73
5	89	80	74	69		88	79	73	69		78	72	68		76	71	68		74	70	67
6	84	75	68	63		83	74	68	63		72	67	63		71	66	62		69	65	62
7	80	69	63	58		78	69	62	58		67	62	58		66	61	57		65	61	57
8	75	65	58	54		74	64	58	54		63	57	53		62	57	53		61	56	53
9	71	61	54	50		70	60	54	50		59	53	50		58	53	49		57	53	49
10	67	57	50	46		66	56	50	46		55	50	46		55	50	46		54	49	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	181143
5°	180695
10°	180299
15°	180249
20°	178479
25°	167669
30°	149466
35°	119177
40°	79131
45°	47313
50°	24528
55°	12896
60°	4567
65°	78
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 47313 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	7.5
10°-20°	449.3	21.4
20°-30°	633.9	30.2
30°-40°	547.2	26.1
40°-50°	245.1	11.7
50°-60°	64.2	3.1
60°-70°	4.2	0.2
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°	1239.9	59.0
0°-40°	1787.1	85.1
0°-60°	2096.3	99.8
0°-90°	2100.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1658	
5°	1648	157
15°	1594	449
25°	1391	634
35°	894	547
45°	306	245
55°	68	64
65°	0	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1657.9
2.5°	1656.1
5°	1647.5
7.5°	1640.3
10°	1625.1
12.5°	1611.4
15°	1593.5
17.5°	1572.9
20°	1535.0
22.5°	1472.8
25°	1390.8
27.5°	1295.7
30°	1184.7
32.5°	1049.1
35°	893.5
37.5°	721.7
40°	554.8
42.5°	421.6
45°	306.2
47.5°	211.1
50°	144.3
52.5°	99.6
55°	67.7
57.5°	40.9
60°	20.9
62.5°	6.5
65°	0.3
67.5°	0.0
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°







(END OF REPORT)