

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: P780345

Luminaire Tested: LER4D20D010-EC4DR6520359027-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780345
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: LER4D20D010-EC4DR6520359027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1647.2 lumens
Efficiency: N/A
Efficacy: 71.3 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): 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



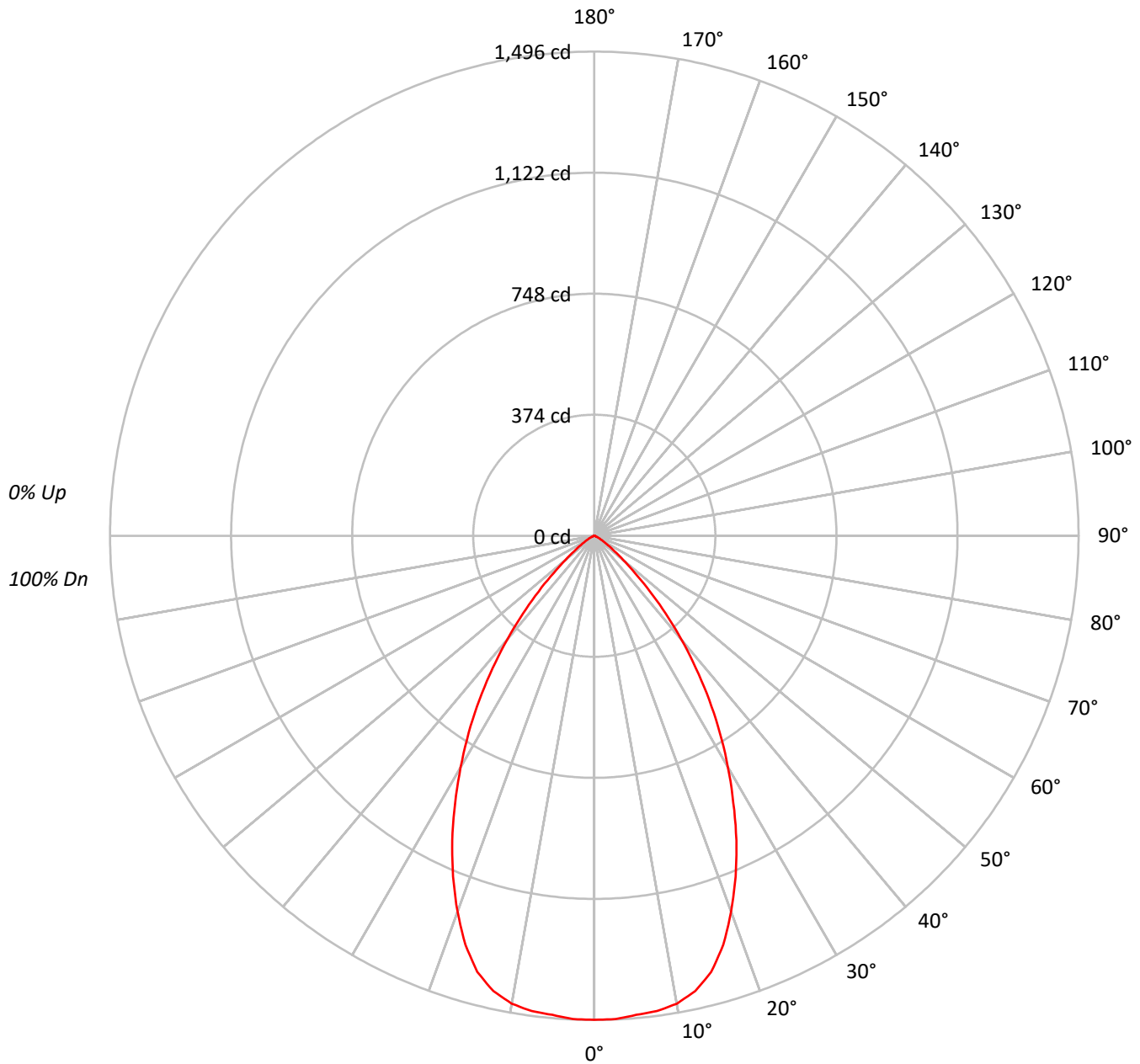
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	87349
5°	87126
10°	87054
15°	84372
20°	76808
25°	66929
30°	55671
35°	44112
40°	31838
45°	20112
50°	10485
55°	5570
60°	2920
65°	1603
70°	683
75°	745
80°	505
85°	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20112 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	8.6
10°-20°	387.3	23.5
20°-30°	473.4	28.7
30°-40°	384.1	23.3
40°-50°	191.4	11.6
50°-60°	53.4	3.2
60°-70°	12.1	0.7
70°-80°	3.2	0.2
80°-90°	0.8	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°	1002.1	60.8
0°-40°	1386.3	84.2
0°-60°	1631.1	99.0
0°-90°	1647.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1647.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1496	
5°	1486	141
15°	1395	387
25°	1039	473
35°	619	384
45°	244	191
55°	55	53
65°	12	12
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1495.6
2.5°	1494.5
5°	1486.1
7.5°	1481.3
10°	1467.9
12.5°	1440.6
15°	1395.4
17.5°	1324.6
20°	1235.8
22.5°	1140.0
25°	1038.6
27.5°	930.3
30°	825.5
32.5°	722.0
35°	618.7
37.5°	515.6
40°	417.6
42.5°	325.7
45°	243.5
47.5°	169.7
50°	115.4
52.5°	79.6
55°	54.7
57.5°	36.9
60°	25.0
62.5°	17.4
65°	11.6
67.5°	6.0
70°	4.0
72.5°	3.7
75°	3.3
77.5°	2.2
80°	1.5
82.5°	1.1
85°	0.7
87.5°	0.5
90°	0.0



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— 0°-180°







(END OF REPORT)