

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: P780381

Luminaire Tested: LER4D20D010-EC4DR7020359040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780381
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-EC4DR7020359040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2125.6 lumens
Efficiency: N/A
Efficacy: 92.0 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



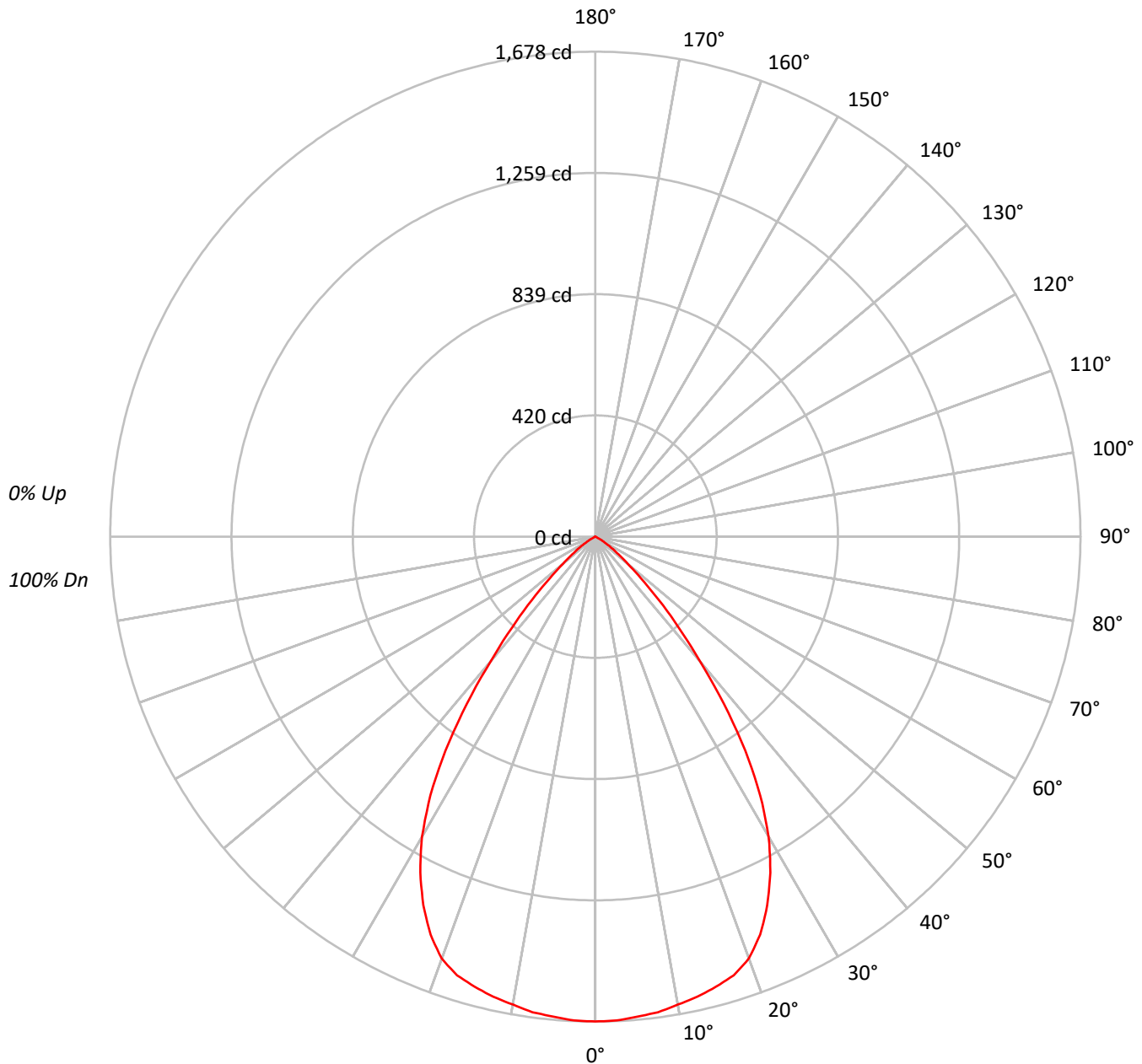
Downlight



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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					0
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°	183307
5°	182844
10°	182451
15°	182398
20°	180618
25°	169658
30°	151257
35°	120605
40°	80072
45°	47885
50°	24817
55°	13049
60°	4611
65°	78
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 47885 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	7.5
10°-20°	454.7	21.4
20°-30°	641.4	30.2
30°-40°	553.7	26.1
40°-50°	248.0	11.7
50°-60°	64.9	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°	1254.7	59.0
0°-40°	1808.4	85.1
0°-60°	2121.3	99.8
0°-90°	2125.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2125.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1678	
5°	1667	159
15°	1612	455
25°	1407	641
35°	904	554
45°	310	248
55°	68	65
65°	0	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1677.7
2.5°	1675.9
5°	1667.1
7.5°	1659.9
10°	1644.5
12.5°	1630.6
15°	1612.5
17.5°	1591.7
20°	1553.4
22.5°	1490.3
25°	1407.3
27.5°	1311.1
30°	1198.9
32.5°	1061.6
35°	904.2
37.5°	730.4
40°	561.4
42.5°	426.6
45°	309.9
47.5°	213.6
50°	146.0
52.5°	100.8
55°	68.5
57.5°	41.3
60°	21.1
62.5°	6.6
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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)