

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: P780386

Luminaire Tested: LER4D20D010-EC4DR7020359050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780386
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-EC4DR7020359050-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 2205.5 lumens
Efficiency: N/A
Efficacy: 95.5 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



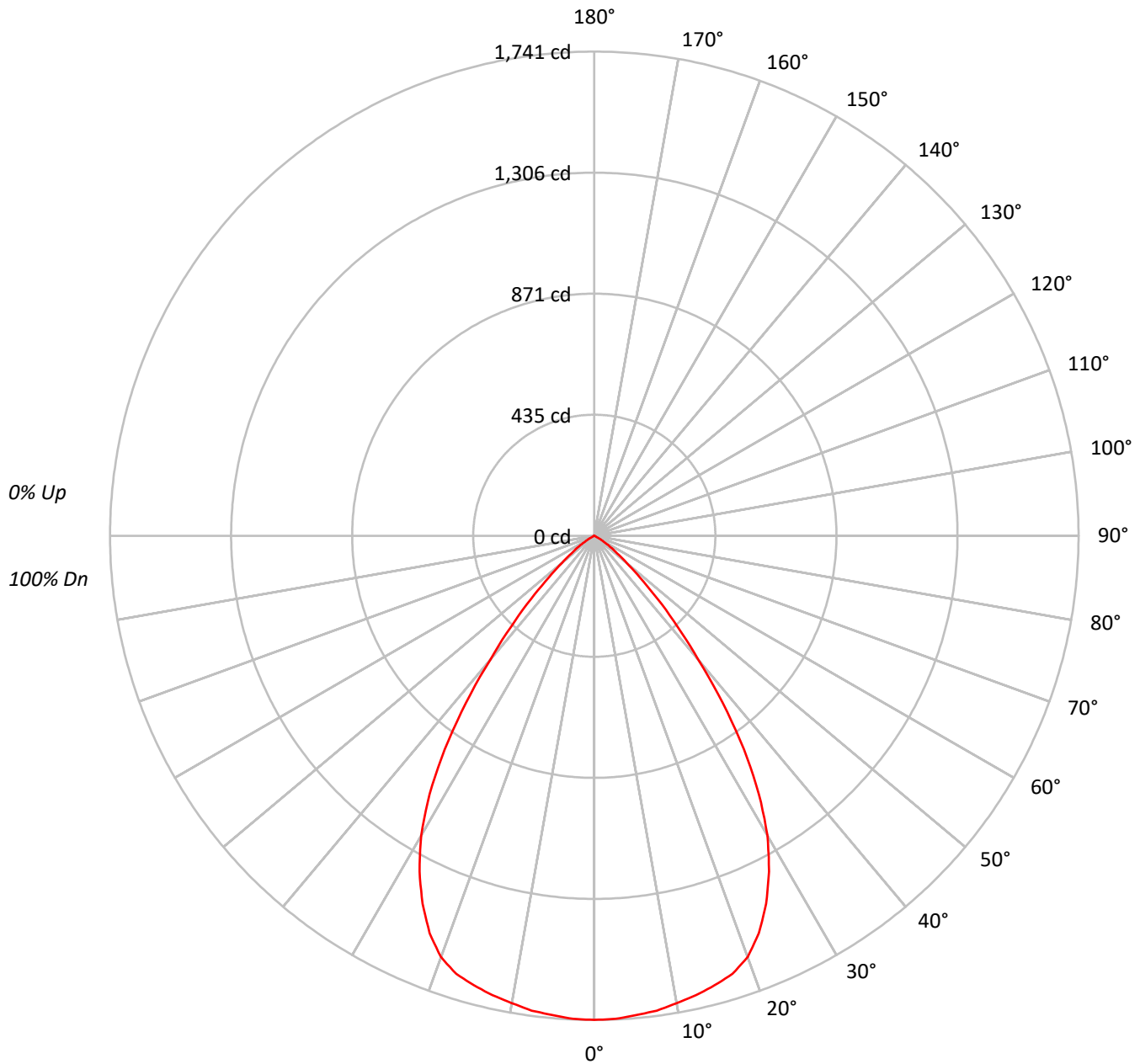
Downlight



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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°	190201
5°	189721
10°	189319
15°	189264
20°	187409
25°	176048
30°	156947
35°	125126
40°	83096
45°	49678
50°	25752
55°	13525
60°	4786
65°	78
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49678 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.5	7.5
10°-20°	471.8	21.4
20°-30°	665.6	30.2
30°-40°	574.6	26.1
40°-50°	257.3	11.7
50°-60°	67.4	3.1
60°-70°	4.4	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°	1301.9	59.0
0°-40°	1876.5	85.1
0°-60°	2201.1	99.8
0°-90°	2205.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2205.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1741	
5°	1730	165
15°	1673	472
25°	1460	666
35°	938	575
45°	322	257
55°	71	67
65°	0	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1740.8
2.5°	1738.9
5°	1729.8
7.5°	1722.3
10°	1706.4
12.5°	1691.9
15°	1673.2
17.5°	1651.6
20°	1611.8
22.5°	1546.4
25°	1460.3
27.5°	1360.5
30°	1244.0
32.5°	1101.6
35°	938.1
37.5°	757.8
40°	582.6
42.5°	442.6
45°	321.5
47.5°	221.6
50°	151.5
52.5°	104.6
55°	71.0
57.5°	42.9
60°	21.9
62.5°	6.9
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)