

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: P780371

Luminaire Tested: LER4D20D010-EC4DR7020359027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780371
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-EC4DR7020359027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1801.8 lumens
Efficiency: N/A
Efficacy: 78.0 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



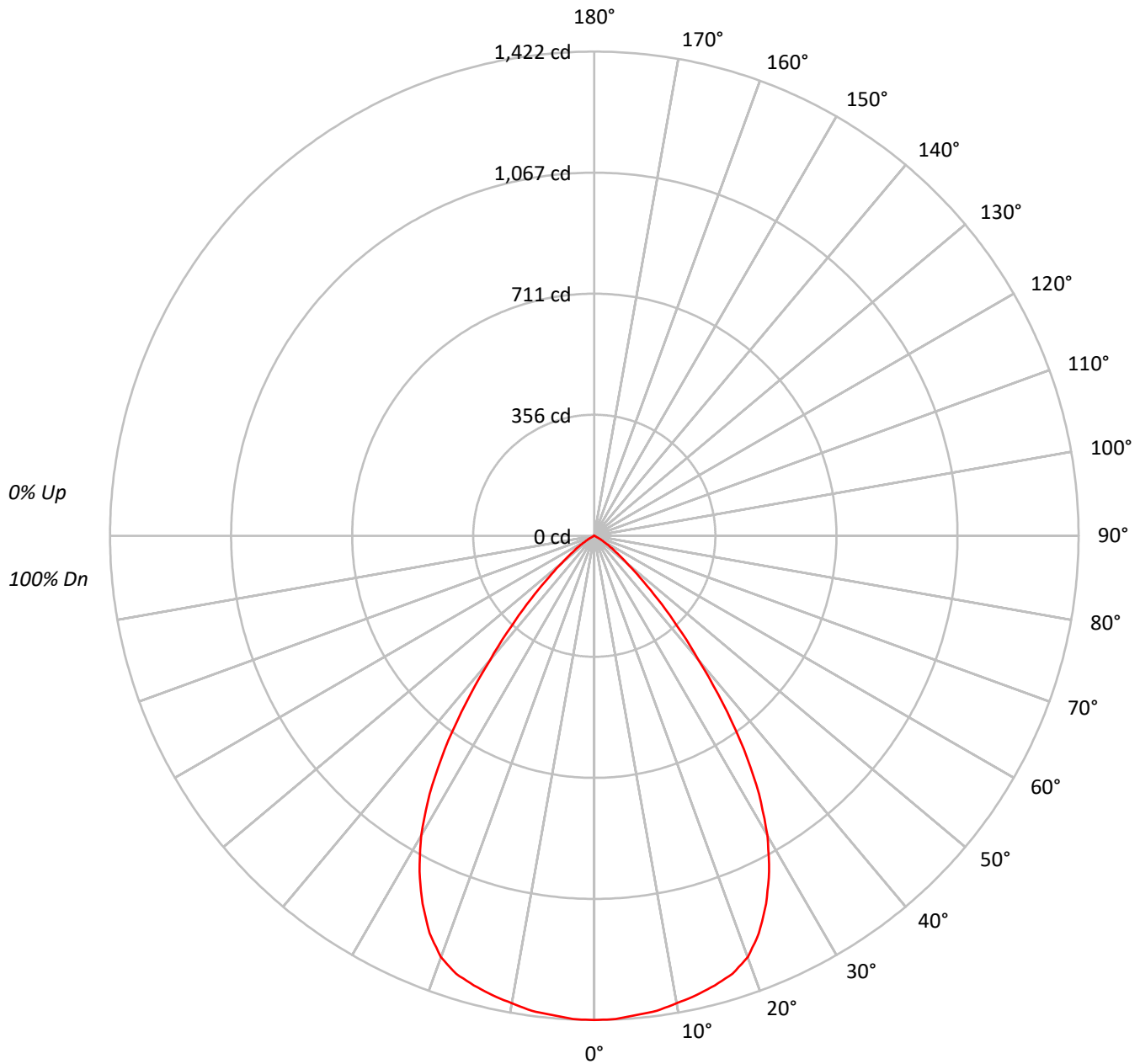
Downlight



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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					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	63	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°	155391
5°	154997
10°	154659
15°	154617
20°	153108
25°	143823
30°	128220
35°	102225
40°	67892
45°	40576
50°	21043
55°	11048
60°	3912
65°	52
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 40576 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	7.5
10°-20°	385.4	21.4
20°-30°	543.8	30.2
30°-40°	469.4	26.1
40°-50°	210.2	11.7
50°-60°	55.0	3.1
60°-70°	3.6	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°	1063.6	59.0
0°-40°	1533.0	85.1
0°-60°	1798.2	99.8
0°-90°	1801.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1801.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1422	
5°	1413	134
15°	1367	385
25°	1193	544
35°	766	469
45°	263	210
55°	58	55
65°	0	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1422.2
2.5°	1420.6
5°	1413.2
7.5°	1407.1
10°	1394.0
12.5°	1382.2
15°	1366.9
17.5°	1349.2
20°	1316.8
22.5°	1263.4
25°	1193.0
27.5°	1111.4
30°	1016.3
32.5°	899.9
35°	766.4
37.5°	619.1
40°	476.0
42.5°	361.6
45°	262.6
47.5°	181.1
50°	123.8
52.5°	85.4
55°	58.0
57.5°	35.0
60°	17.9
62.5°	5.6
65°	0.2
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)