

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: P743843

Luminaire Tested: LD4D20D010-EU4DR1015209040-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR1015209040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 10° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1980.3 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 0.17 / 0.17 / 0.18
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): 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



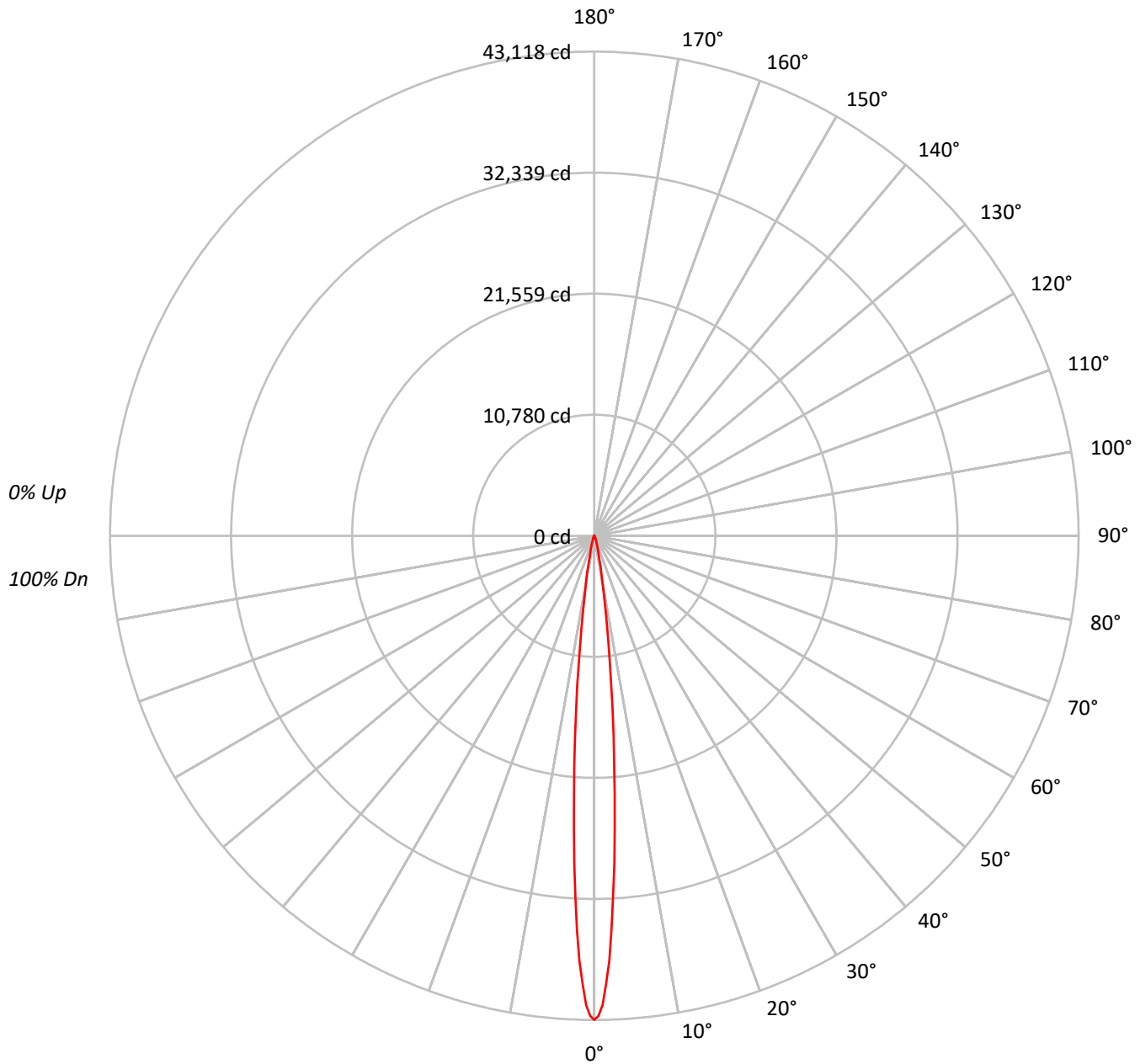
Downlight



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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	116	114	113	111		114	112	111	109		108	107	106		104	104	103		101	101	100
2	113	110	108	106		111	108	106	104		105	104	102		103	101	100		100	99	98
3	111	107	104	102		109	106	103	101		103	101	99		101	99	98		99	98	96
4	108	104	101	99		107	103	100	98		101	99	97		99	97	96		98	96	95
5	106	102	99	96		105	101	98	96		99	97	95		98	96	94		97	95	94
6	104	100	96	94		103	99	96	94		98	95	93		97	94	93		96	94	92
7	103	98	95	93		102	97	94	92		96	94	92		95	93	92		95	93	91
8	101	96	93	91		100	96	93	91		95	92	91		94	92	90		93	92	90
9	100	95	92	90		99	94	92	90		94	91	90		93	91	89		93	91	89
10	98	94	91	89		98	93	91	89		93	90	88		92	90	88		92	90	88

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4711062
5°	2233968
10°	458153
15°	125784
20°	50695
25°	27161
30°	16073
35°	10457
40°	6989
45°	4543
50°	2499
55°	1867
60°	1071
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4543 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1408.1	71.1
10°-20°	381.0	19.2
20°-30°	109.1	5.5
30°-40°	49.8	2.5
40°-50°	22.9	1.2
50°-60°	7.6	0.4
60°-70°	1.8	0.1
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°	1898.2	95.9
0°-40°	1948.1	98.4
0°-60°	1978.5	99.9
0°-90°	1980.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1980.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	43118	
5°	20368	###
15°	1112	381
25°	225	109
35°	78	50
45°	29	23
55°	10	8
65°	0	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	43117.6
0.5°	42745.3
1°	41790.1
1.5°	39948.2
2°	37885.9
2.5°	35162.3
3°	32134.9
3.5°	29205.6
4°	26045.9
4.5°	23136.2
5°	20368.4
5.5°	17860.4
6°	15469.8
6.5°	13368.3
7°	11389.3
7.5°	9699.3
8°	8200.3
8.5°	6887.5
9°	5751.0
9.5°	4883.9
10°	4129.5
12.5°	1969.2
15°	1112.0
17.5°	676.0
20°	436.0
22.5°	303.7
25°	225.3
27.5°	166.6
30°	127.4
32.5°	98.0
35°	78.4
37.5°	58.8
40°	49.0
42.5°	39.2
45°	29.4
47.5°	19.6
50°	14.7
52.5°	9.8
55°	9.8
57.5°	4.9
60°	4.9
62.5°	4.9
65°	0.0



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CANDELA DISTRIBUTION (continued):

	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°







67.5°	0.0
70°	0.0



(END OF REPORT)