

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: P741954

Luminaire Tested: LD4D10D010-EU4DR200210IC9027-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR200210IC9027-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 958.5 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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



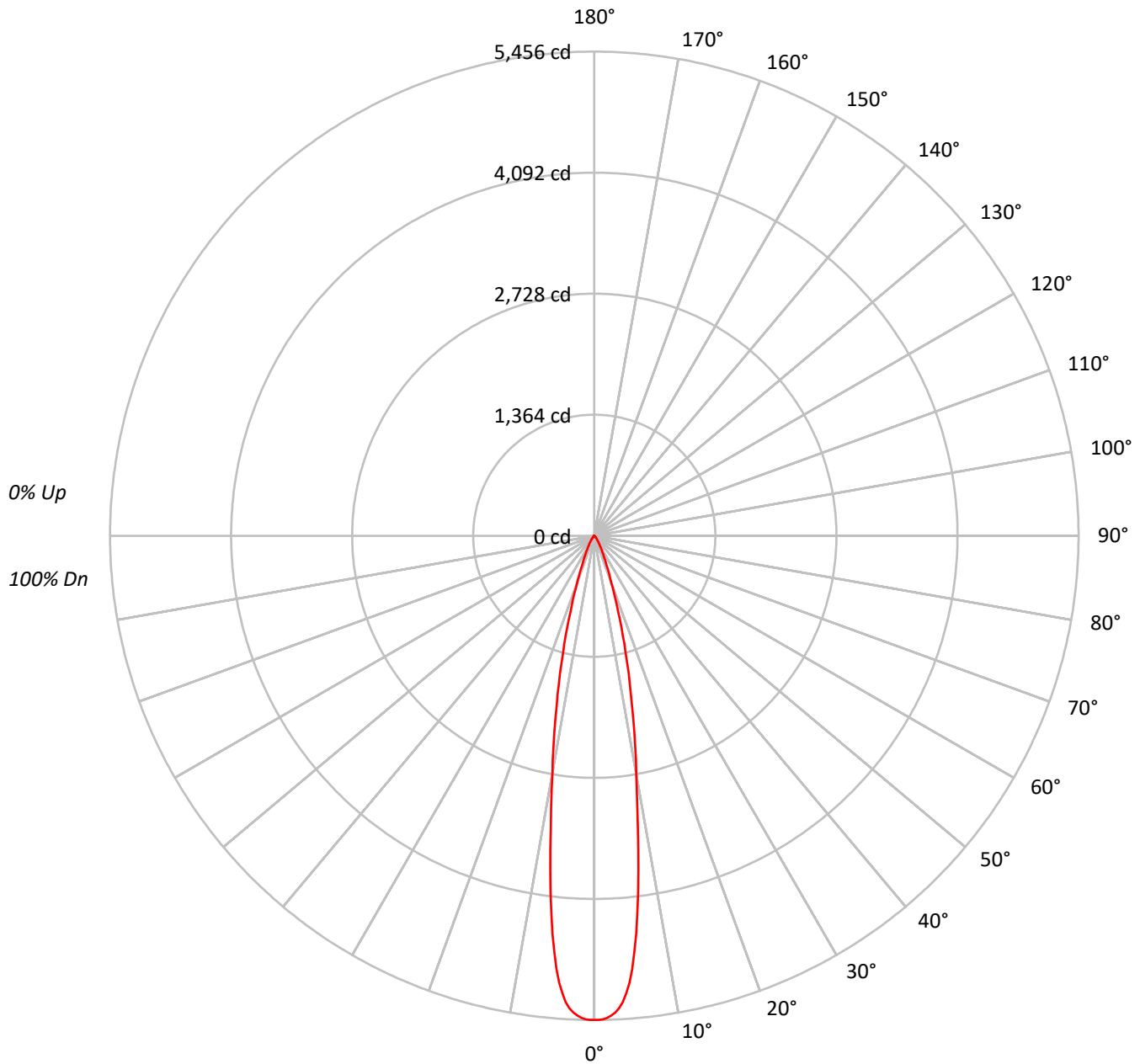
Downlight



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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	115	113	111	109	113	111	109	108	107	106	104		103	102	101		100
2	111	108	105	102	109	106	104	101	103	101	99		100	99	97		98
3	108	103	100	97	106	102	99	96	100	97	95		97	95	93		95
4	105	99	96	93	103	98	95	92	96	93	91		95	92	90		93
5	102	96	92	89	100	95	91	89	94	90	88		92	89	87		91
6	99	93	89	86	98	92	88	86	91	87	85		90	87	84		88
7	96	90	86	83	95	89	86	83	88	85	82		87	84	82		86
8	94	87	83	81	93	87	83	80	86	83	80		85	82	80		84
9	91	85	81	78	91	85	81	78	84	80	78		83	80	78		82
10	89	83	79	76	88	82	79	76	82	78	76		81	78	76		81

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	596094
5°	537785
10°	301840
15°	153429
20°	64962
25°	29982
30°	15871
35°	8550
40°	4578
45°	2704
50°	1564
55°	838
60°	524
65°	388
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2704 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.4	40.5
10°-20°	382.5	39.9
20°-30°	124.9	13.0
30°-40°	42.5	4.4
40°-50°	14.3	1.5
50°-60°	4.3	0.4
60°-70°	1.4	0.2
70°-80°	0.1	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°	895.9	93.5
0°-40°	938.4	97.9
0°-60°	957.0	99.8
0°-90°	958.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	958.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5456	
5°	4903	388
15°	1356	382
25°	249	125
35°	64	43
45°	18	14
55°	4	4
65°	2	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5455.7
0.5°	5455.7
1°	5448.9
1.5°	5435.3
2°	5410.5
2.5°	5377.5
3°	5330.9
3.5°	5265.8
4°	5169.1
4.5°	5051.5
5°	4903.3
5.5°	4708.5
6°	4508.9
6.5°	4280.0
7°	4056.1
7.5°	3793.7
8°	3559.6
8.5°	3324.0
9°	3106.3
9.5°	2906.6
10°	2720.6
12.5°	1953.5
15°	1356.4
17.5°	886.1
20°	558.7
22.5°	361.9
25°	248.7
27.5°	174.9
30°	125.8
32.5°	90.4
35°	64.1
37.5°	44.7
40°	32.1
42.5°	23.3
45°	17.5
47.5°	13.6
50°	9.2
52.5°	5.8
55°	4.4
57.5°	3.4
60°	2.4
62.5°	1.9
65°	1.5



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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°		1.0
70°		0.5



(END OF REPORT)