

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: P740980

Luminaire Tested: LD4D08D010-EU4DR200210IC9040-4LBCSSQMMS

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740980
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: LD4D08D010-EU4DR200210IC9040-4LBCSSQMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 803.1 lumens
Efficiency: N/A
Efficacy: 90.2 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): 8.9
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



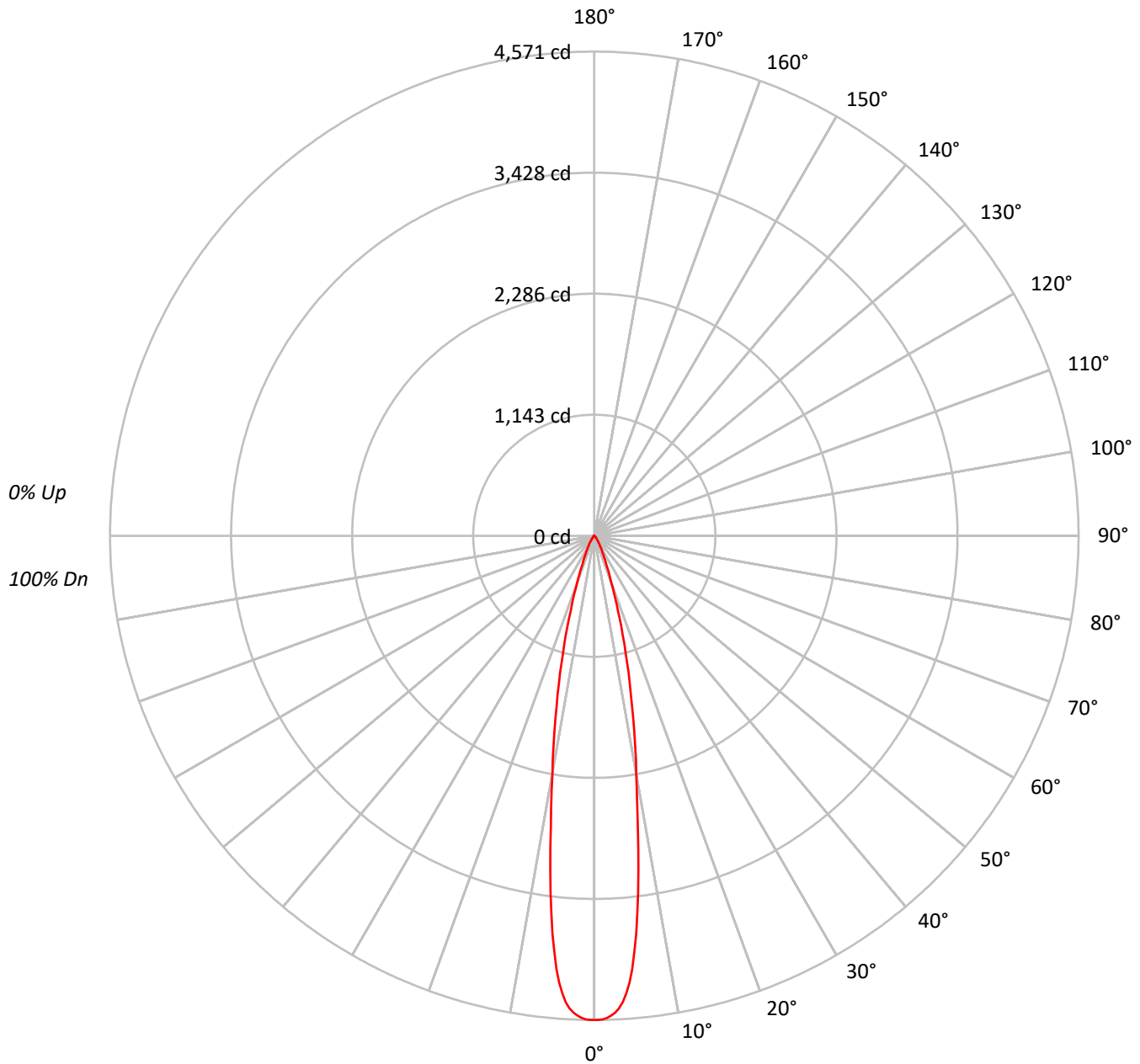
Downlight



TEST NUMBER: P740980

CATALOG NUMBER: LD4D08D010-EU4DR200210IC9040-4LBCSSQMMS

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°	499475
5°	450623
10°	252913
15°	128555
20°	54427
25°	25124
30°	13298
35°	7163
40°	3837
45°	2271
50°	1309
55°	705
60°	437
65°	310
70°	128
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2271 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.5	40.5
10°-20°	320.5	39.9
20°-30°	104.7	13.0
30°-40°	35.6	4.4
40°-50°	12.0	1.5
50°-60°	3.6	0.4
60°-70°	1.2	0.1
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°	750.7	93.5
0°-40°	786.3	97.9
0°-60°	801.9	99.8
0°-90°	803.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	803.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4571	
5°	4109	325
15°	1136	320
25°	208	105
35°	54	36
45°	15	12
55°	4	4
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4571.4
0.5°	4571.4
1°	4565.7
1.5°	4554.3
2°	4533.6
2.5°	4505.9
3°	4466.8
3.5°	4412.2
4°	4331.2
4.5°	4232.7
5°	4108.6
5.5°	3945.3
6°	3778.0
6.5°	3586.3
7°	3398.6
7.5°	3178.8
8°	2982.6
8.5°	2785.2
9°	2602.8
9.5°	2435.5
10°	2279.6
12.5°	1636.8
15°	1136.5
17.5°	742.5
20°	468.1
22.5°	303.3
25°	208.4
27.5°	146.5
30°	105.4
32.5°	75.7
35°	53.7
37.5°	37.5
40°	26.9
42.5°	19.5
45°	14.7
47.5°	11.4
50°	7.7
52.5°	4.9
55°	3.7
57.5°	2.8
60°	2.0
62.5°	1.6
65°	1.2



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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°	0.8
70°	0.4



(END OF REPORT)