

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: P742239

Luminaire Tested: LD4D10D010-EU4DR350210IC9040-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR350210IC9040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 947.6 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
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



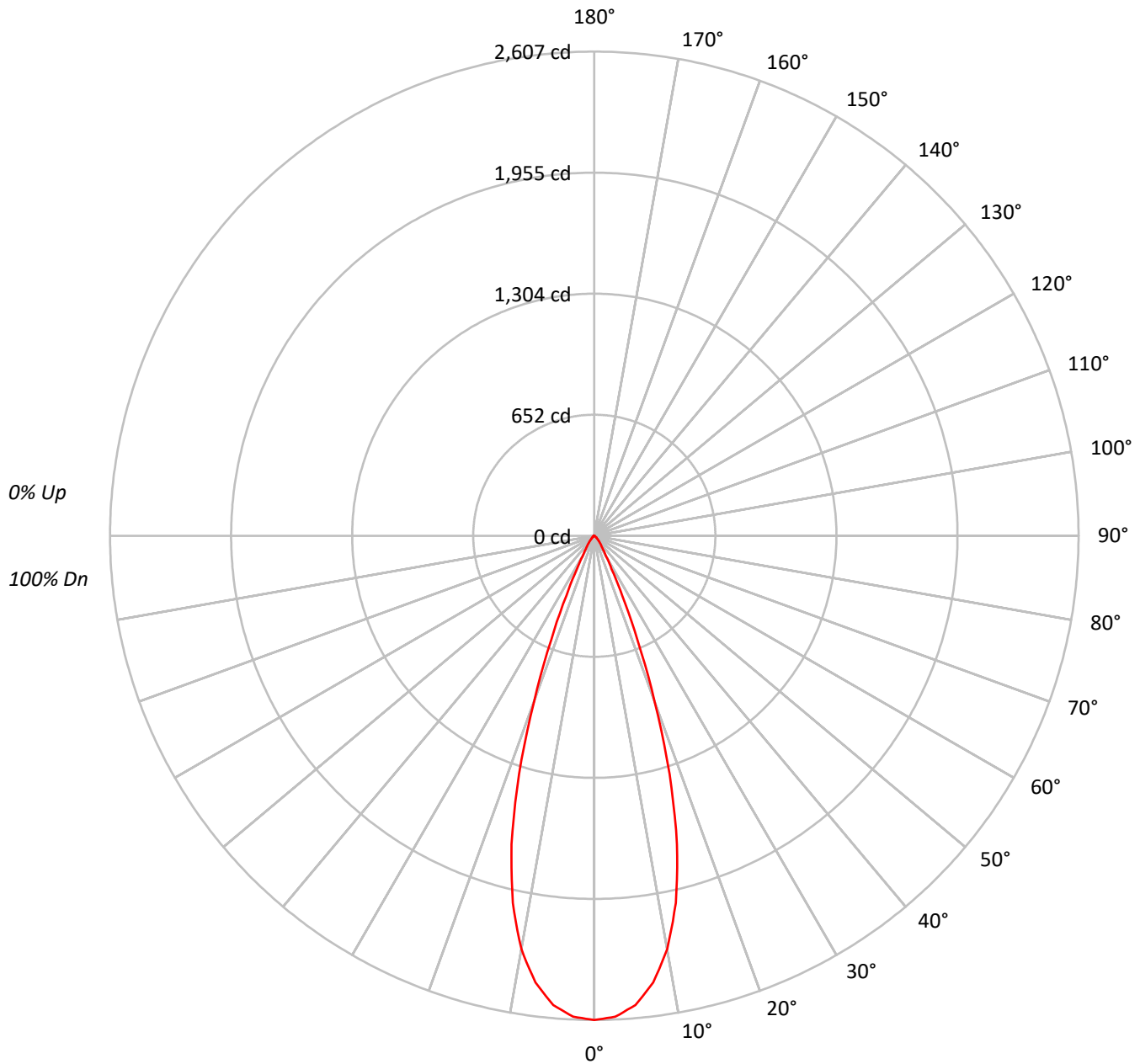
Downlight



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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	112	110	108	112	110	108	107	106	105	103		103	101	100		99
2	110	106	103	101	108	105	102	99	102	99	97		99	97	95		96
3	106	101	97	94	105	100	96	94	97	95	92		95	93	91		93
4	103	97	92	89	101	96	92	89	94	90	88		92	89	87		90
5	99	93	88	85	98	92	87	84	90	86	84		89	85	83		87
6	96	89	84	81	94	88	84	81	87	83	80		85	82	80		84
7	93	85	81	78	91	85	80	77	84	80	77		83	79	77		82
8	90	82	78	74	88	82	77	74	81	77	74		80	76	74		79
9	87	79	75	72	86	79	75	72	78	74	71		77	74	71		77
10	84	77	72	69	83	76	72	69	76	72	69		75	71	69		74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	284886
5°	278199
10°	250727
15°	194603
20°	110378
25°	42942
30°	16023
35°	8777
40°	5734
45°	3492
50°	2227
55°	1581
60°	1158
65°	620
70°	32
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3492 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	24.6
10°-20°	455.5	48.1
20°-30°	185.7	19.6
30°-40°	44.5	4.7
40°-50°	18.5	2.0
50°-60°	7.7	0.8
60°-70°	2.4	0.3
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°	874.5	92.3
0°-40°	918.9	97.0
0°-60°	945.2	99.7
0°-90°	947.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	947.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2607	
5°	2536	233
15°	1720	455
25°	356	186
35°	66	44
45°	23	19
55°	8	8
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2607.4
2.5°	2591.8
5°	2536.5
7.5°	2426.1
10°	2259.9
12.5°	2025.8
15°	1720.4
17.5°	1346.9
20°	949.3
22.5°	605.3
25°	356.2
27.5°	201.3
30°	127.0
32.5°	89.2
35°	65.8
37.5°	50.9
40°	40.2
42.5°	31.0
45°	22.6
47.5°	16.9
50°	13.1
52.5°	10.4
55°	8.3
57.5°	6.7
60°	5.3
62.5°	3.8
65°	2.4
67.5°	0.9
70°	0.1
72.5°	0.1
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)