

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: P740821

Luminaire Tested: LD4D08D010-EU4DR100210IC9035-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740821
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: LD4D08D010-EU4DR100210IC9035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 10° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 682.4 lumens
Efficiency: N/A
Efficacy: 76.7 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): 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



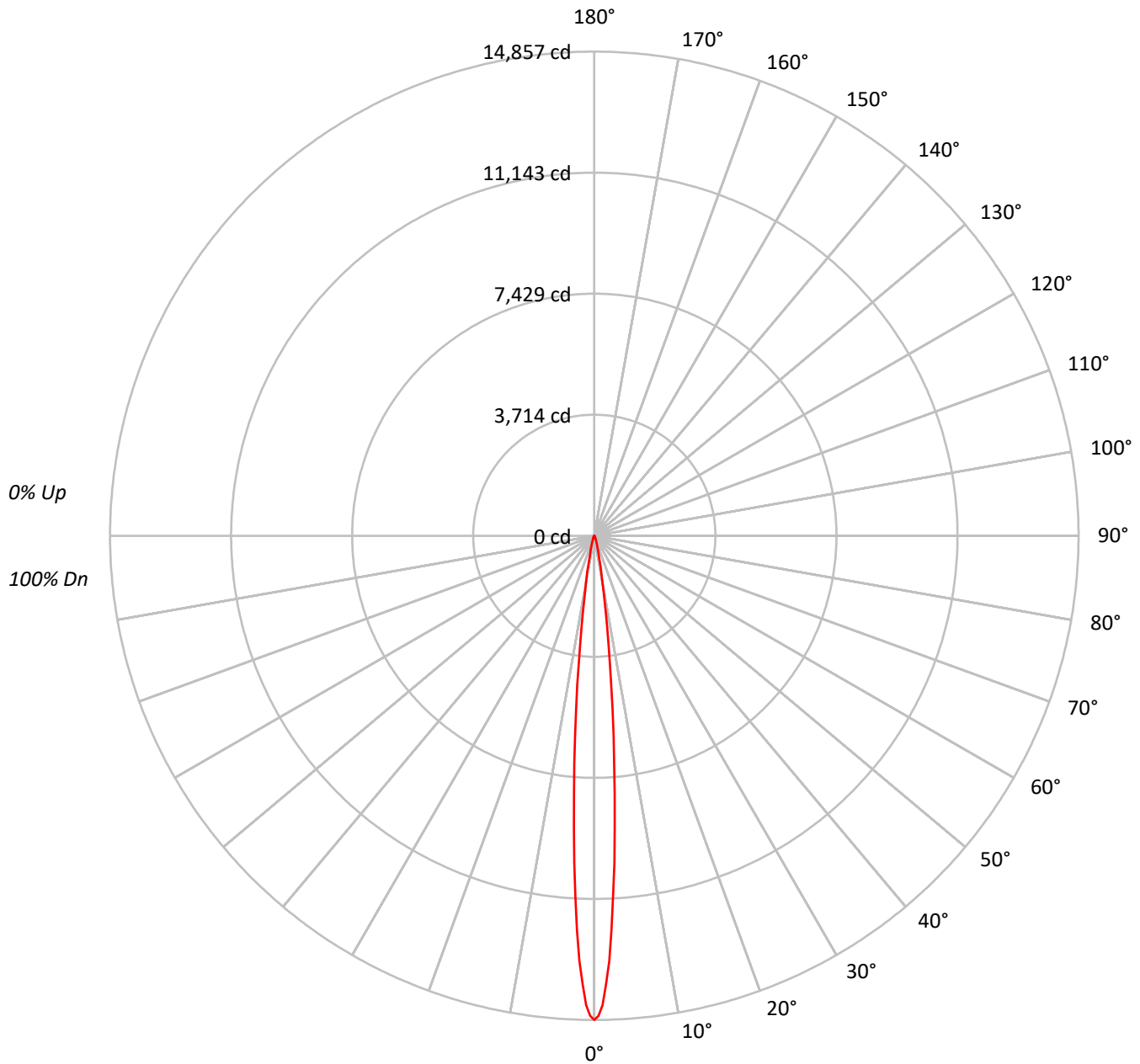
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1623298
5°	769765
10°	157865
15°	43346
20°	17464
25°	9355
30°	5539
35°	3601
40°	2410
45°	1561
50°	867
55°	648
60°	371
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1561 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.2	71.1
10°-20°	131.3	19.2
20°-30°	37.6	5.5
30°-40°	17.2	2.5
40°-50°	7.9	1.2
50°-60°	2.6	0.4
60°-70°	0.6	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°	654.1	95.8
0°-40°	671.3	98.4
0°-60°	681.8	99.9
0°-90°	682.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	682.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14857	
5°	7018	485
15°	383	131
25°	78	38
35°	27	17
45°	10	8
55°	3	3
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14857.1
0.5°	14728.9
1°	14399.7
1.5°	13765.1
2°	13054.4
2.5°	12116.0
3°	11072.8
3.5°	10063.4
4°	8974.7
4.5°	7972.1
5°	7018.4
5.5°	6154.2
6°	5330.5
6.5°	4606.4
7°	3924.4
7.5°	3342.1
8°	2825.6
8.5°	2373.2
9°	1981.6
9.5°	1682.9
10°	1422.9
12.5°	678.5
15°	383.2
17.5°	232.9
20°	150.2
22.5°	104.7
25°	77.6
27.5°	57.4
30°	43.9
32.5°	33.8
35°	27.0
37.5°	20.3
40°	16.9
42.5°	13.5
45°	10.1
47.5°	6.8
50°	5.1
52.5°	3.4
55°	3.4
57.5°	1.7
60°	1.7
62.5°	1.7
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)