

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: P748500

Luminaire Tested: LD4D45BD010-EU4DR4040509035-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR4040509035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

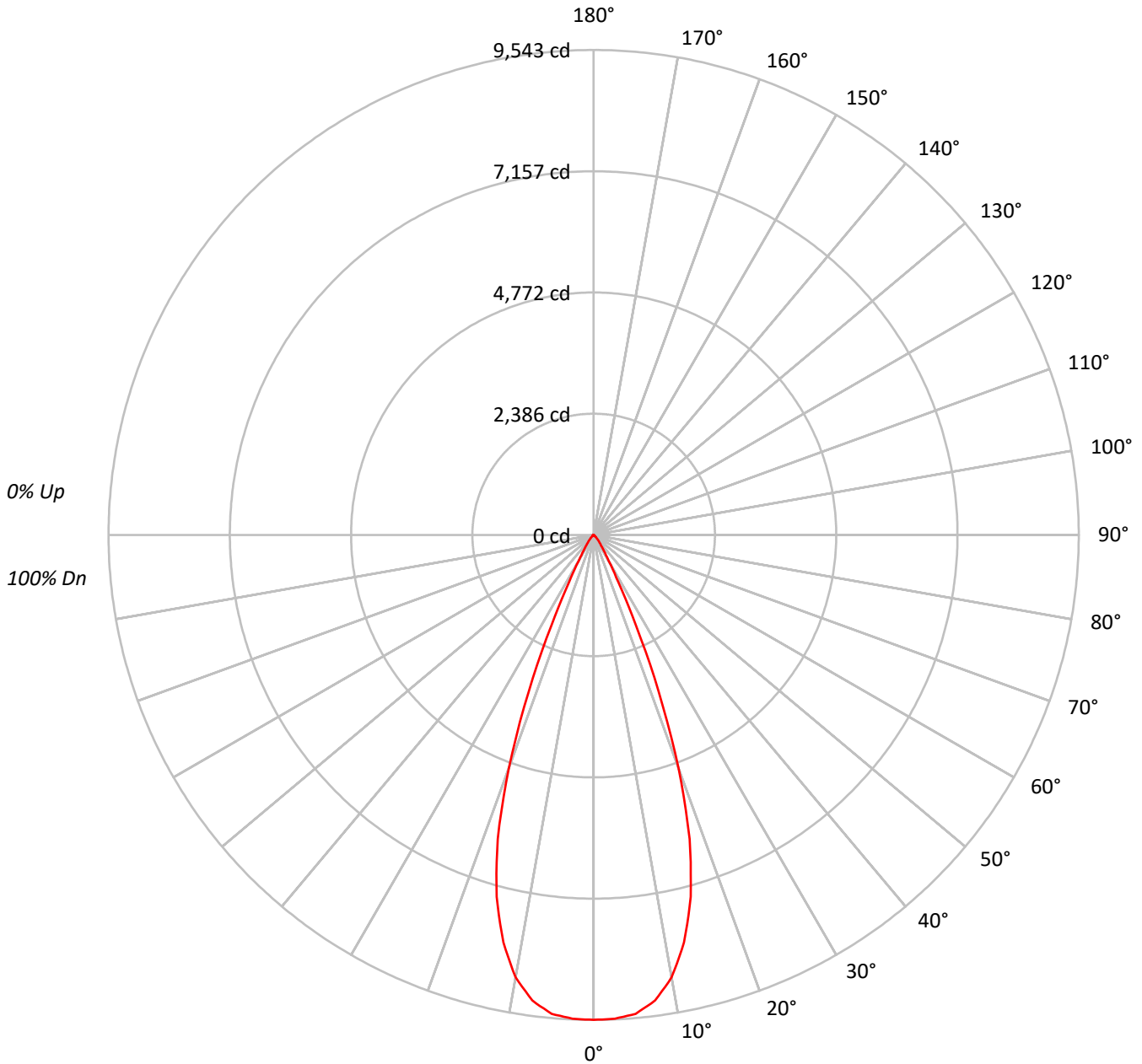
Lumens per Lamp: N/A
Luminaire Lumens: 4098.6 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96						96													
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92						92													
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88						88													
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84						84													
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81						81													
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77						77													
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74						74													
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72						72													
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69						69													
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67						67													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1042643
5°	1037577
10°	980732
15°	833748
20°	568260
25°	237097
30°	74550
35°	34653
40°	19155
45°	8792
50°	4266
55°	2343
60°	1224
65°	440
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8792 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.3	21.6
10°-20°	1978.9	48.3
20°-30°	990.6	24.2
30°-40°	181.6	4.4
40°-50°	50.1	1.2
50°-60°	11.8	0.3
60°-70°	2.3	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°	3852.9	94.0
0°-40°	4034.4	98.4
0°-60°	4096.3	99.9
0°-90°	4098.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4098.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9543	
5°	9460	883
15°	7371	1979
25°	1967	991
35°	260	182
45°	57	50
55°	12	12
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9542.7
2.5°	9528.8
5°	9460.2
7.5°	9241.7
10°	8839.7
12.5°	8213.1
15°	7370.8
17.5°	6275.4
20°	4887.3
22.5°	3332.0
25°	1966.7
27.5°	1039.7
30°	590.9
32.5°	381.9
35°	259.8
37.5°	185.6
40°	134.3
42.5°	92.0
45°	56.9
47.5°	36.2
50°	25.1
52.5°	17.8
55°	12.3
57.5°	7.8
60°	5.6
62.5°	3.3
65°	1.7
67.5°	1.1
70°	0.6
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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