

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: P748668

Luminaire Tested: LD4D45BD010-EU4DR5040509035-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR5040509035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

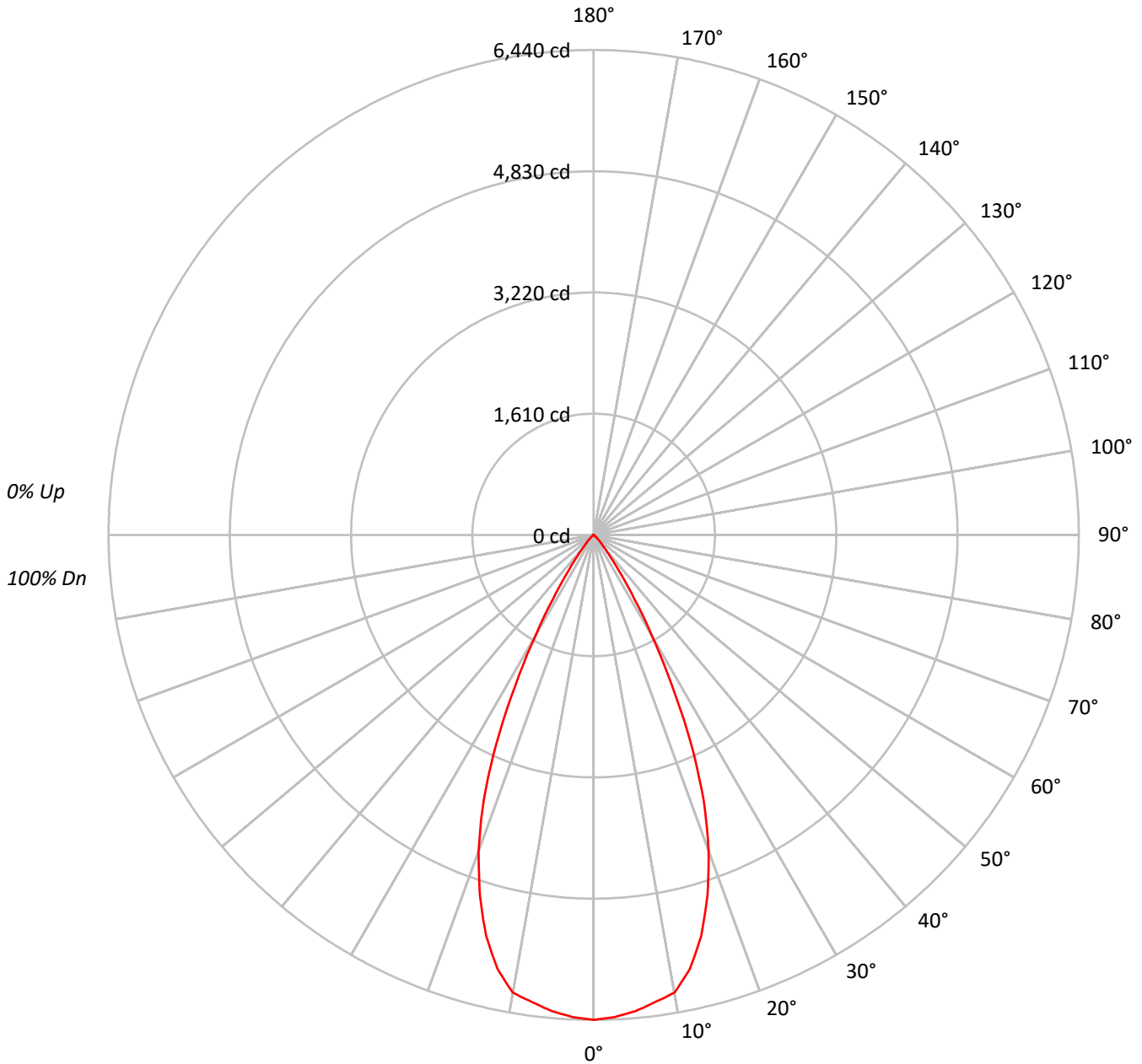
Lumens per Lamp: N/A
Luminaire Lumens: 3996.9 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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				20				
RC	80				70				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95			
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90			
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85			
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80			
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76			
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72			
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69			
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65			
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62			
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	703650
5°	696270
10°	684805
15°	623569
20°	518879
25°	368322
30°	194960
35°	79443
40°	29510
45°	13505
50°	5541
55°	2895
60°	1420
65°	414
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13505 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.0	15.0
10°-20°	1516.4	37.9
20°-30°	1362.2	34.1
30°-40°	426.5	10.7
40°-50°	74.7	1.9
50°-60°	14.9	0.4
60°-70°	2.2	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°	3478.6	87.0
0°-40°	3905.1	97.7
0°-60°	3994.7	99.9
0°-90°	3996.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3996.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6440	
5°	6348	600
15°	5513	1516
25°	3055	1362
35°	596	426
45°	87	75
55°	15	15
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6440.1
2.5°	6408.0
5°	6348.3
7.5°	6257.1
10°	6172.4
12.5°	5900.9
15°	5512.7
17.5°	5019.7
20°	4462.6
22.5°	3818.1
25°	3055.2
27.5°	2246.2
30°	1545.3
32.5°	1006.1
35°	595.6
37.5°	342.1
40°	206.9
42.5°	134.7
45°	87.4
47.5°	53.2
50°	32.6
52.5°	22.3
55°	15.2
57.5°	10.3
60°	6.5
62.5°	3.8
65°	1.6
67.5°	0.5
70°	0.0
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

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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