

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: P743407

Luminaire Tested: LD4D15D010-EU4DR500215IC9024-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743407
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: LD4D15D010-EU4DR500215IC9024-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1173.5 lumens
Efficiency: N/A
Efficacy: 74.3 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): 15.8
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



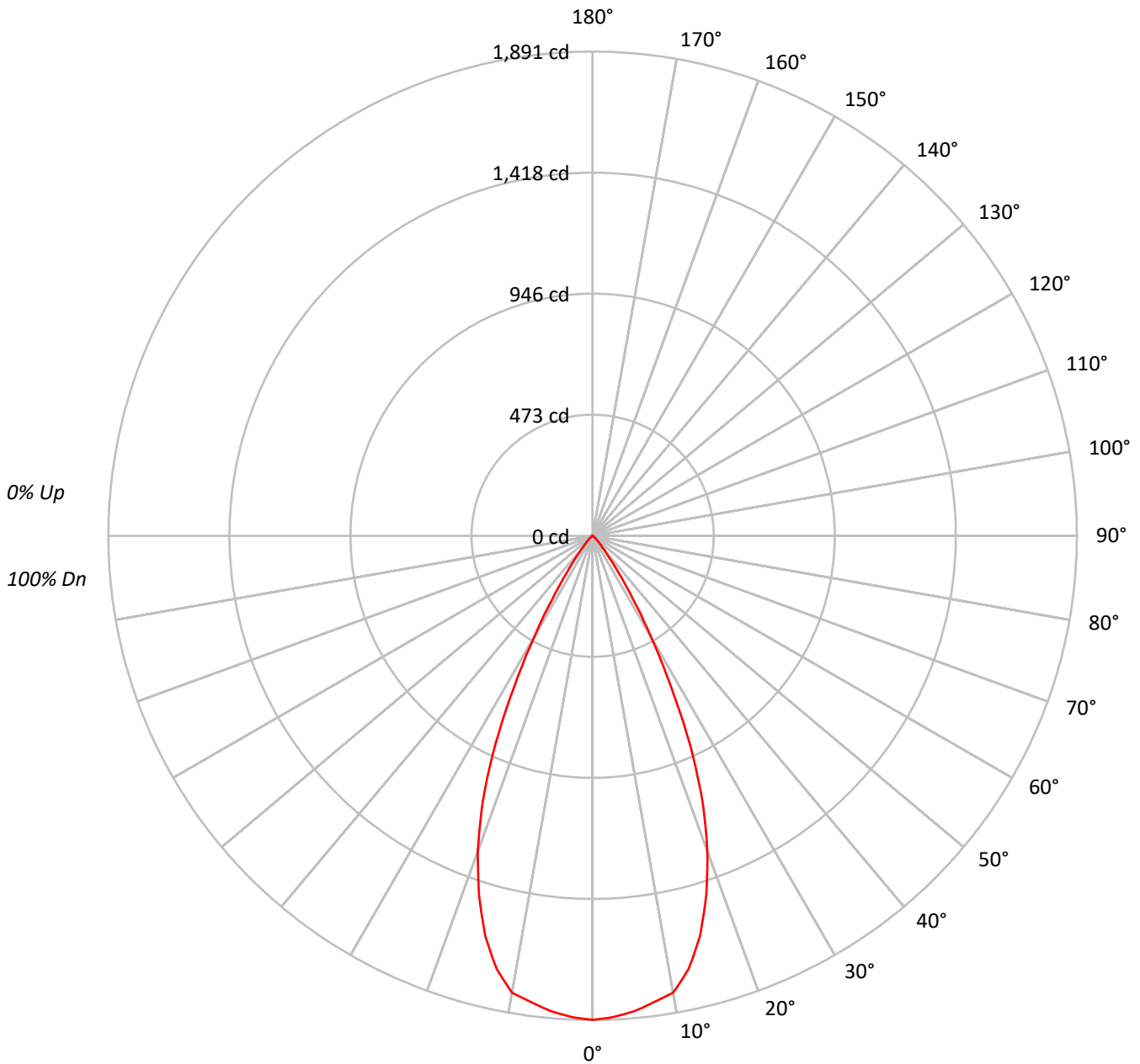
Downlight



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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									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	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	95	93	91	88	86	85	85	83	82	82	80																									
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	88	86	85	85	83	82	80	77	76	74	72																										
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85	85	83	82	80	77	76	74	72																												
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80	77	76	74	72	70	69	67	65																												
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76	74	72	70	69	67	65																														
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72	70	69	67	65																																
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69	67	65																																		
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°	206590
5°	204429
10°	201057
15°	183077
20°	152341
25°	108139
30°	57240
35°	23329
40°	8658
45°	3971
50°	1632
55°	857
60°	415
65°	129
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3971 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	15.0
10°-20°	445.2	37.9
20°-30°	399.9	34.1
30°-40°	125.2	10.7
40°-50°	21.9	1.9
50°-60°	4.4	0.4
60°-70°	0.7	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°	1021.3	87.0
0°-40°	1146.5	97.7
0°-60°	1172.8	99.9
0°-90°	1173.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1173.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1891	
5°	1864	176
15°	1618	445
25°	897	400
35°	175	125
45°	26	22
55°	4	4
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1890.8
2.5°	1881.4
5°	1863.9
7.5°	1837.1
10°	1812.2
12.5°	1732.5
15°	1618.5
17.5°	1473.8
20°	1310.2
22.5°	1121.0
25°	897.0
27.5°	659.5
30°	453.7
32.5°	295.4
35°	174.9
37.5°	100.4
40°	60.7
42.5°	39.5
45°	25.7
47.5°	15.6
50°	9.6
52.5°	6.5
55°	4.5
57.5°	3.0
60°	1.9
62.5°	1.1
65°	0.5
67.5°	0.2
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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(END OF REPORT)