

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: P742356

Luminaire Tested: LD4D10D010-EU4DR450210IC9027-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR450210IC9027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 911.5 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
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

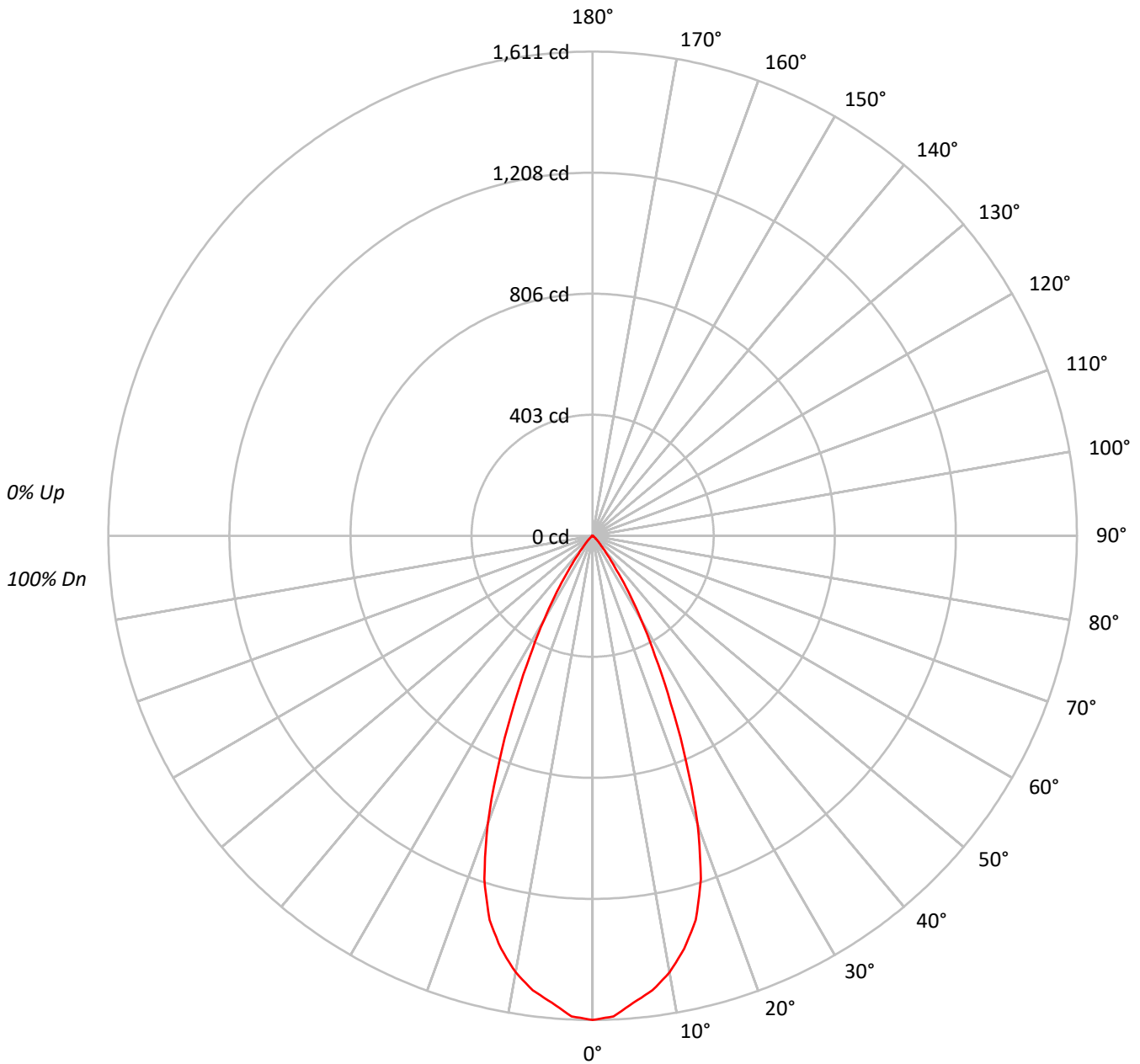


Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	176019
5°	171010
10°	163612
15°	149730
20°	118796
25°	74166
30°	40877
35°	18353
40°	7231
45°	3415
50°	1615
55°	838
60°	415
65°	103
70°	32
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3415 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	16.1
10°-20°	360.6	39.6
20°-30°	285.5	31.3
30°-40°	95.1	10.4
40°-50°	18.9	2.1
50°-60°	4.3	0.5
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°	792.6	87.0
0°-40°	887.7	97.4
0°-60°	910.8	99.9
0°-90°	911.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	911.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1611	
5°	1559	147
15°	1324	361
25°	615	286
35°	138	95
45°	22	19
55°	4	4
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1611.0
2.5°	1600.5
5°	1559.2
7.5°	1525.1
10°	1474.7
12.5°	1407.5
15°	1323.7
17.5°	1197.8
20°	1021.7
22.5°	811.8
25°	615.2
27.5°	450.5
30°	324.0
32.5°	220.4
35°	137.6
37.5°	81.6
40°	50.7
42.5°	33.3
45°	22.1
47.5°	14.2
50°	9.5
52.5°	6.4
55°	4.4
57.5°	2.9
60°	1.9
62.5°	1.0
65°	0.4
67.5°	0.1
70°	0.1
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)