

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: P742784

Luminaire Tested: LD4D10D010-EU4DR700210IC9040-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P742784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR700210IC9040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 676.0 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
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

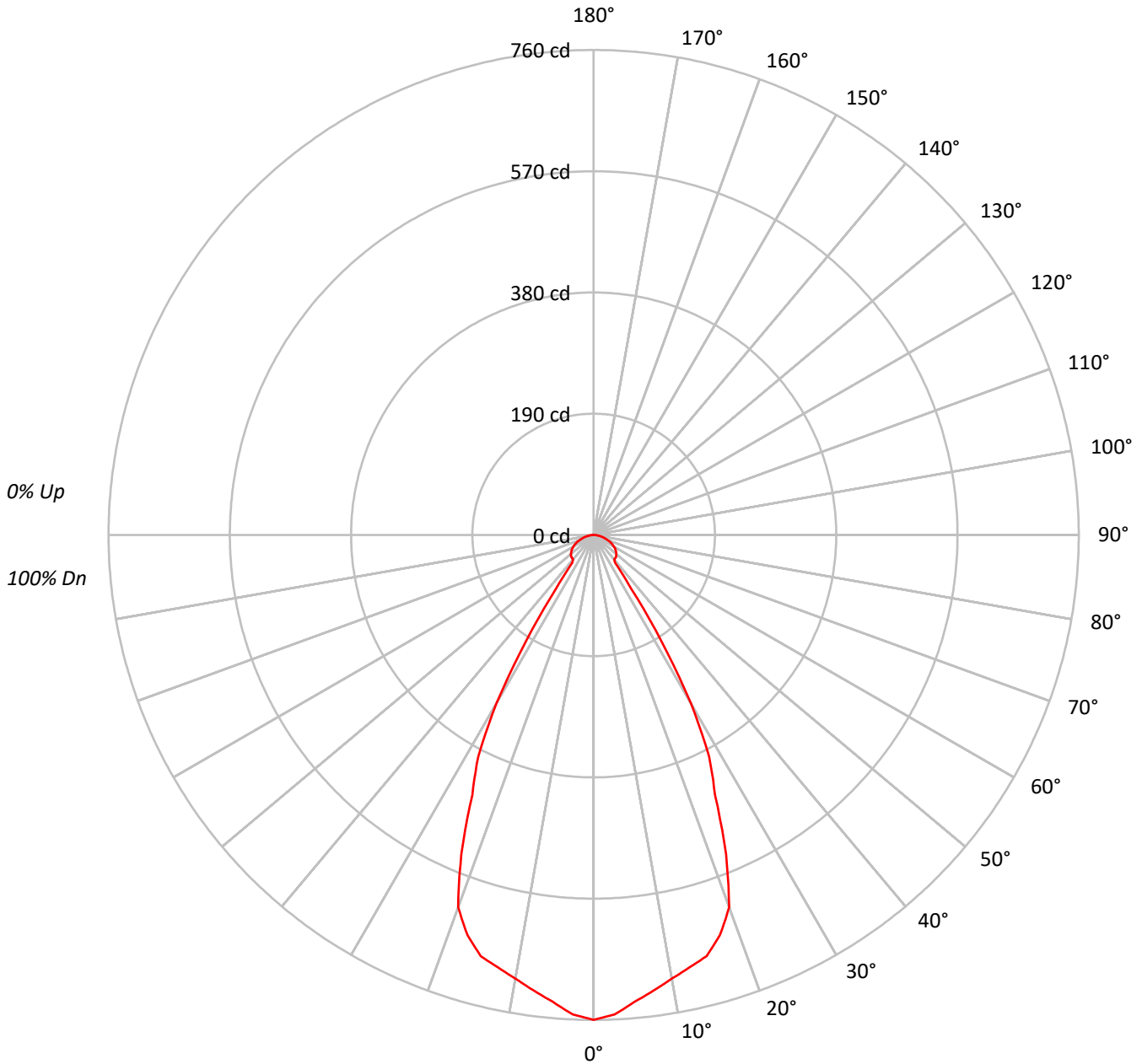


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																			
5	89	80	74	69	88	79	73	69	77	72	68	75	71	67	74	70	67	65																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	83038
5°	80570
10°	78328
15°	77303
20°	72182
25°	54226
30°	38328
35°	13578
40°	7146
45°	7602
50°	7887
55°	8020
60°	8085
65°	7885
70°	7443
75°	6923
80°	6103
85°	5015

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 60°
 Luminance: 8085 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	10.3
10°-20°	190.1	28.1
20°-30°	209.3	31.0
30°-40°	80.0	11.8
40°-50°	37.8	5.6
50°-60°	37.6	5.6
60°-70°	30.0	4.4
70°-80°	17.3	2.6
80°-90°	4.7	0.7
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°	468.7	69.3
0°-40°	548.7	81.2
0°-60°	624.0	92.3
0°-90°	676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	676.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	760	
5°	735	69
15°	683	190
25°	450	209
35°	102	80
45°	49	38
55°	42	38
65°	30	30
75°	16	17
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	760.0
2.5°	752.1
5°	734.6
7.5°	720.1
10°	706.0
12.5°	694.1
15°	683.4
17.5°	657.5
20°	620.8
22.5°	541.6
25°	449.8
27.5°	391.6
30°	303.8
32.5°	196.2
35°	101.8
37.5°	55.0
40°	50.1
42.5°	49.7
45°	49.2
47.5°	48.1
50°	46.4
52.5°	44.3
55°	42.1
57.5°	39.7
60°	37.0
62.5°	33.8
65°	30.5
67.5°	26.9
70°	23.3
72.5°	19.7
75°	16.4
77.5°	12.9
80°	9.7
82.5°	6.9
85°	4.0
87.5°	1.5
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)