

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: P755960

Luminaire Tested: LD4D90BD010-EU4DR7070959024-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755960
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: LD4D90BD010-EU4DR7070959024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

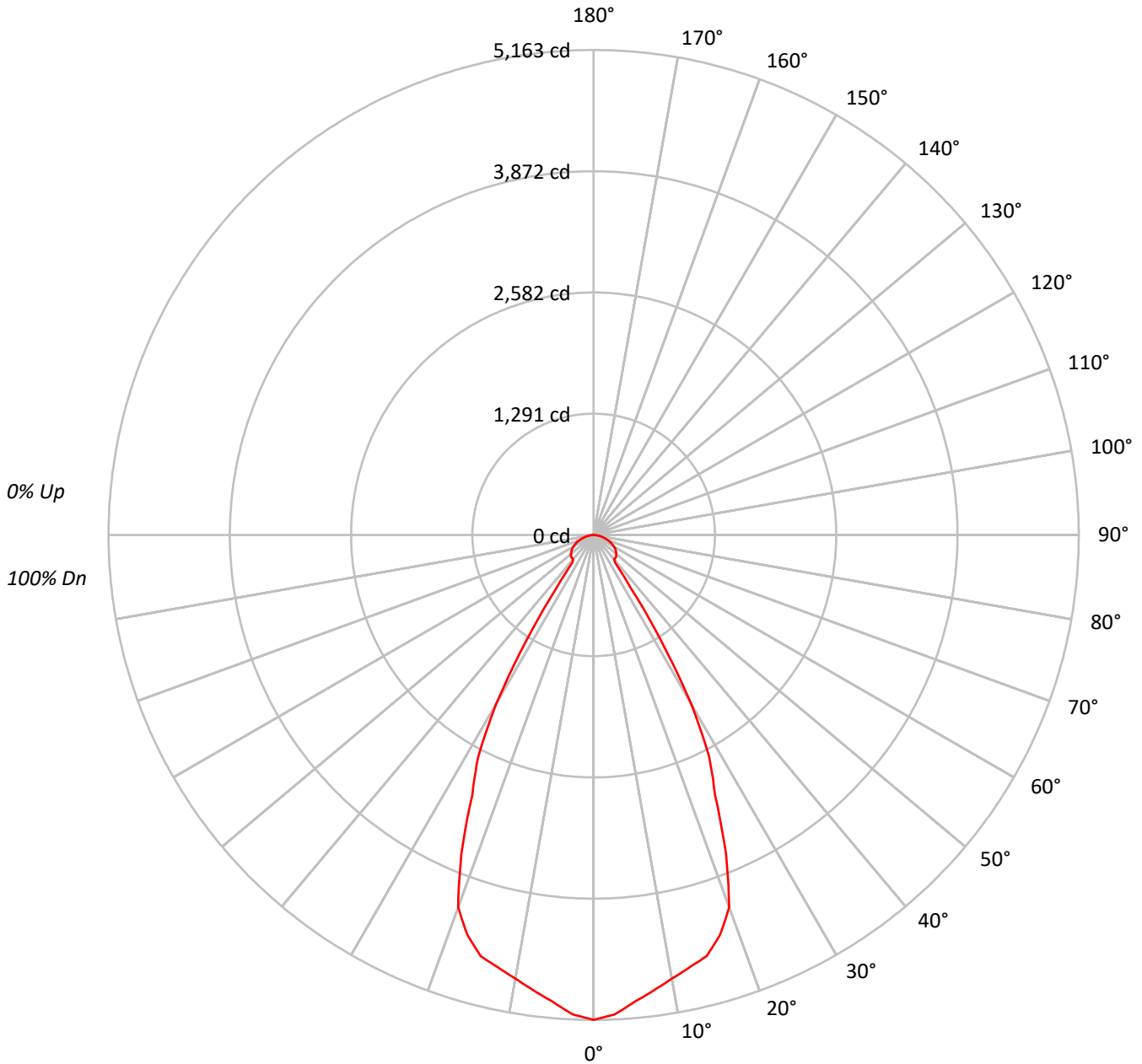
Lumens per Lamp: N/A
Luminaire Lumens: 4592.2 lumens
Efficiency: N/A
Efficacy: 46.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 98.9
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	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	87	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°	564102
5°	547338
10°	532087
15°	525103
20°	490334
25°	368371
30°	260401
35°	92234
40°	48508
45°	51655
50°	53493
55°	54499
60°	54849
65°	53671
70°	50666
75°	46943
80°	41654
85°	33848

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 54864 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.7	10.3
10°-20°	1291.1	28.1
20°-30°	1422.0	31.0
30°-40°	543.3	11.8
40°-50°	256.5	5.6
50°-60°	255.1	5.6
60°-70°	204.2	4.4
70°-80°	117.4	2.6
80°-90°	31.9	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°	3183.8	69.3
0°-40°	3727.1	81.2
0°-60°	4238.7	92.3
0°-90°	4592.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4592.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5163	
5°	4990	471
15°	4642	1291
25°	3056	1422
35°	692	543
45°	334	257
55°	286	255
65°	208	204
75°	111	117
85°	27	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5162.9
2.5°	5109.0
5°	4990.4
7.5°	4891.5
10°	4795.9
12.5°	4715.0
15°	4642.2
17.5°	4466.5
20°	4217.1
22.5°	3679.3
25°	3055.6
27.5°	2659.9
30°	2064.0
32.5°	1333.2
35°	691.5
37.5°	373.6
40°	340.1
42.5°	337.6
45°	334.3
47.5°	327.0
50°	314.7
52.5°	300.8
55°	286.1
57.5°	269.8
60°	251.0
62.5°	229.7
65°	207.6
67.5°	183.1
70°	158.6
72.5°	134.1
75°	111.2
77.5°	87.5
80°	66.2
82.5°	46.6
85°	27.0
87.5°	10.6
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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