

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: P755973

Luminaire Tested: LD4D90BD010-EU4DR7070959027-4LBSQW1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755973  
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-EU4DR7070959027-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

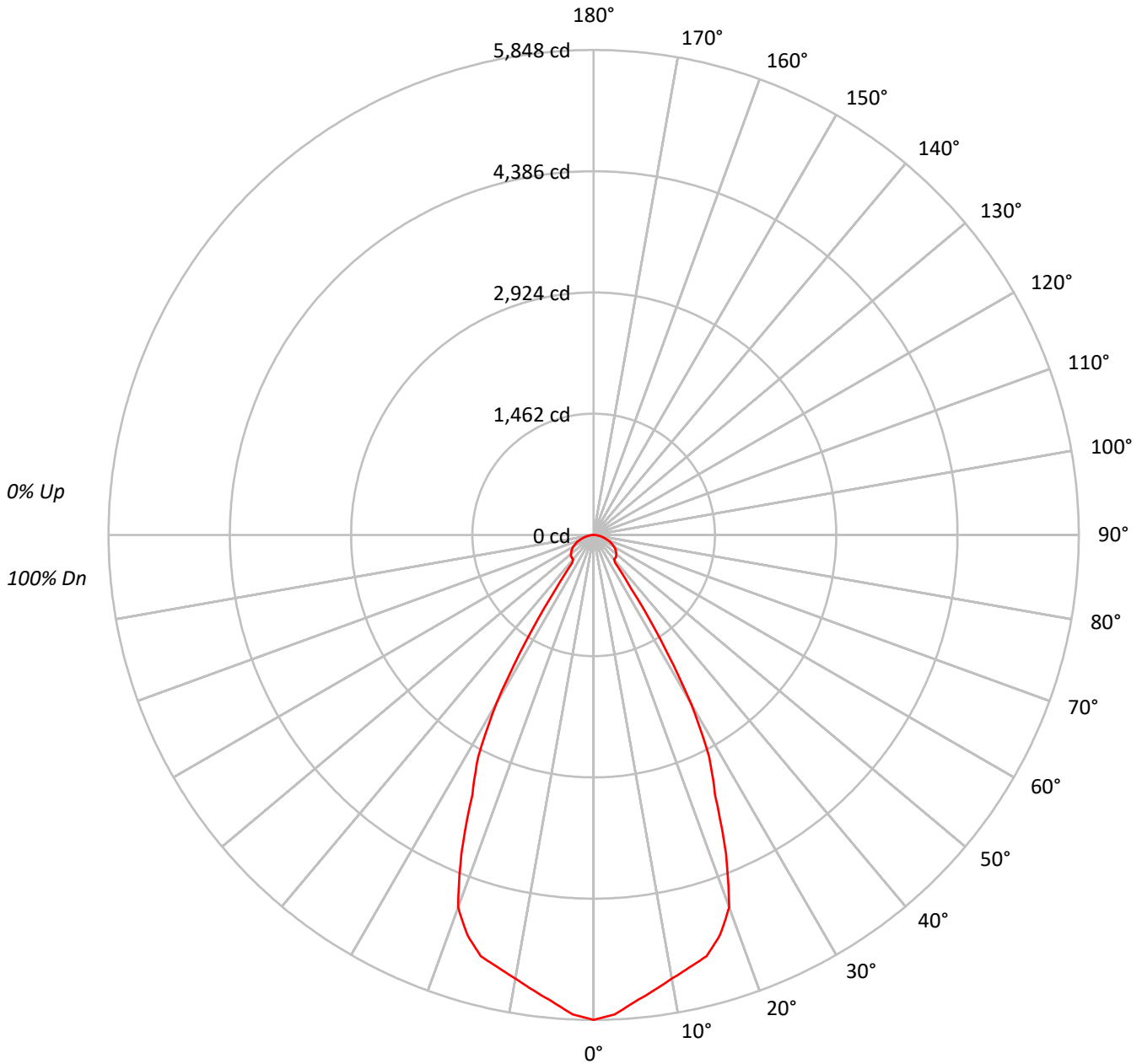
Lumens per Lamp: N/A  
Luminaire Lumens: 5201.9 lumens  
Efficiency: N/A  
Efficacy: 52.6 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

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°	639001
5°	620021
10°	602738
15°	594827
20°	555447
25°	417280
30°	294983
35°	104492
40°	54941
45°	58516
50°	60598
55°	61738
60°	62126
65°	60807
70°	57374
75°	53149
80°	47191
85°	38361

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 62144 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	533.2	10.3
10°-20°	1462.6	28.1
20°-30°	1610.8	31.0
30°-40°	615.5	11.8
40°-50°	290.6	5.6
50°-60°	288.9	5.6
60°-70°	231.3	4.4
70°-80°	132.9	2.6
80°-90°	36.1	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°	3606.6	69.3
0°-40°	4222.0	81.2
0°-60°	4801.5	92.3
0°-90°	5201.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5201.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5848	
5°	5653	533
15°	5259	1463
25°	3461	1611
35°	783	615
45°	379	291
55°	324	289
65°	235	231
75°	126	133
85°	31	36
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5848.4
2.5°	5787.3
5°	5653.1
7.5°	5541.0
10°	5432.7
12.5°	5341.0
15°	5258.6
17.5°	5059.5
20°	4777.1
22.5°	4167.8
25°	3461.3
27.5°	3013.1
30°	2338.1
32.5°	1510.3
35°	783.4
37.5°	423.2
40°	385.2
42.5°	382.4
45°	378.7
47.5°	370.4
50°	356.5
52.5°	340.8
55°	324.1
57.5°	305.6
60°	284.3
62.5°	260.2
65°	235.2
67.5°	207.4
70°	179.6
72.5°	151.9
75°	125.9
77.5°	99.1
80°	75.0
82.5°	52.8
85°	30.6
87.5°	12.0
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)