

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: P754465

Luminaire Tested: LD4D80BD010-EU4DR7070959050-4LBSQW1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754465  
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: LD4D80BD010-EU4DR7070959050-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

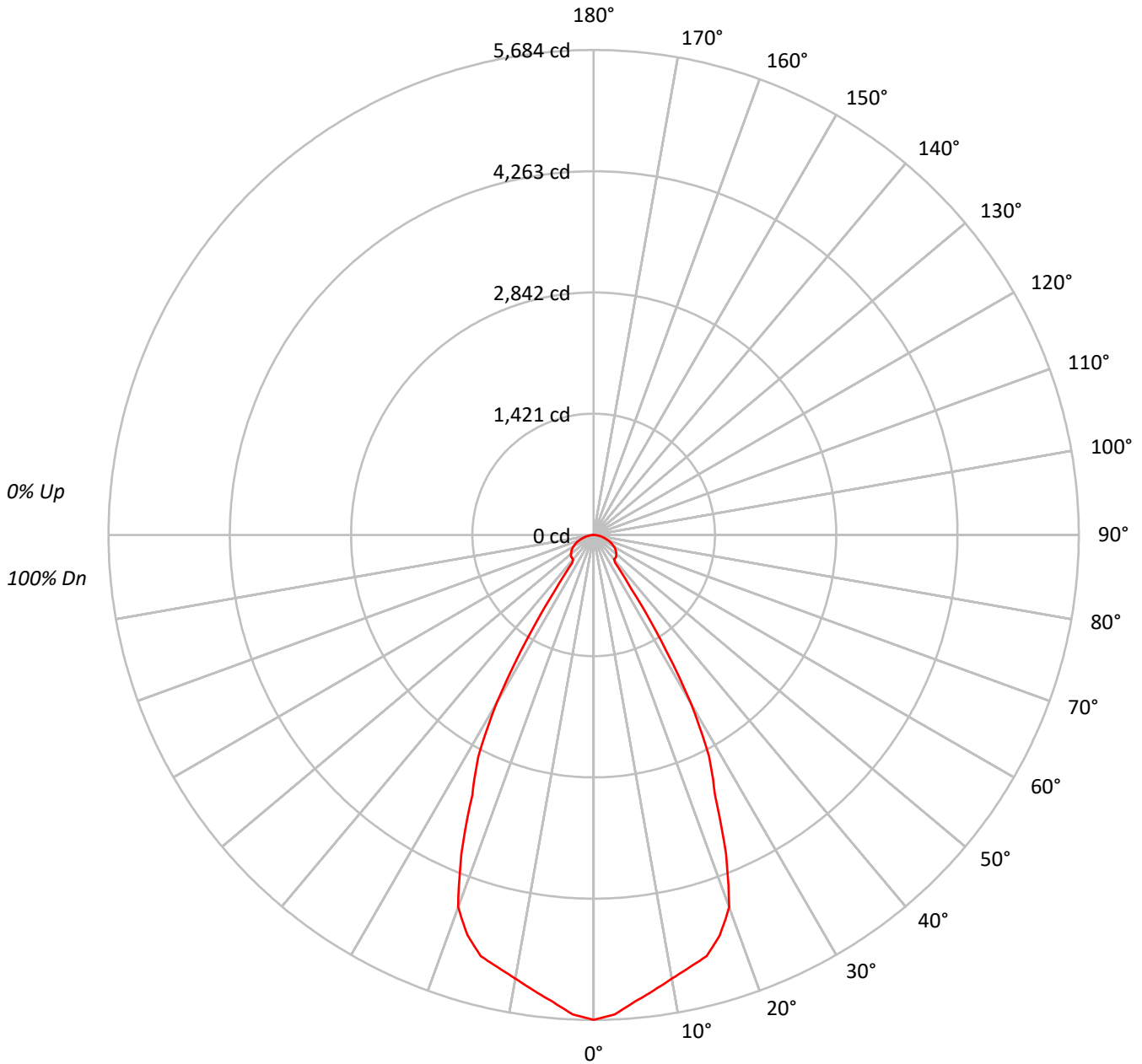
Lumens per Lamp: N/A  
Luminaire Lumens: 5055.3 lumens  
Efficiency: N/A  
Efficacy: 64.1 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 78.9  
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				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			70
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			65
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			57
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			53
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			50
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			48

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	620994
5°	602539
10°	585741
15°	578063
20°	539785
25°	405514
30°	286669
35°	101544
40°	53386
45°	56863
50°	58881
55°	60004
60°	60377
65°	59101
70°	55777
75°	51671
80°	45869
85°	37233

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 60395 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.2	10.3
10°-20°	1421.3	28.1
20°-30°	1565.4	31.0
30°-40°	598.1	11.8
40°-50°	282.4	5.6
50°-60°	280.8	5.6
60°-70°	224.8	4.4
70°-80°	129.2	2.6
80°-90°	35.1	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°	3504.9	69.3
0°-40°	4103.0	81.2
0°-60°	4666.2	92.3
0°-90°	5055.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5055.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5684	
5°	5494	518
15°	5110	1421
25°	3364	1565
35°	761	598
45°	368	282
55°	315	281
65°	229	225
75°	122	129
85°	30	35
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5683.6
2.5°	5624.2
5°	5493.7
7.5°	5384.8
10°	5279.5
12.5°	5190.4
15°	5110.4
17.5°	4916.9
20°	4642.4
22.5°	4050.3
25°	3363.7
27.5°	2928.2
30°	2272.2
32.5°	1467.7
35°	761.3
37.5°	411.2
40°	374.3
42.5°	371.6
45°	368.0
47.5°	359.9
50°	346.4
52.5°	331.2
55°	315.0
57.5°	297.0
60°	276.3
62.5°	252.9
65°	228.6
67.5°	201.6
70°	174.6
72.5°	147.6
75°	122.4
77.5°	96.3
80°	72.9
82.5°	51.3
85°	29.7
87.5°	11.7
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)