

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: P754452

Luminaire Tested: LD4D80BD010-EU4DR7070959040-4LBSQW1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754452  
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-EU4DR7070959040-4LBSQW1B  
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**

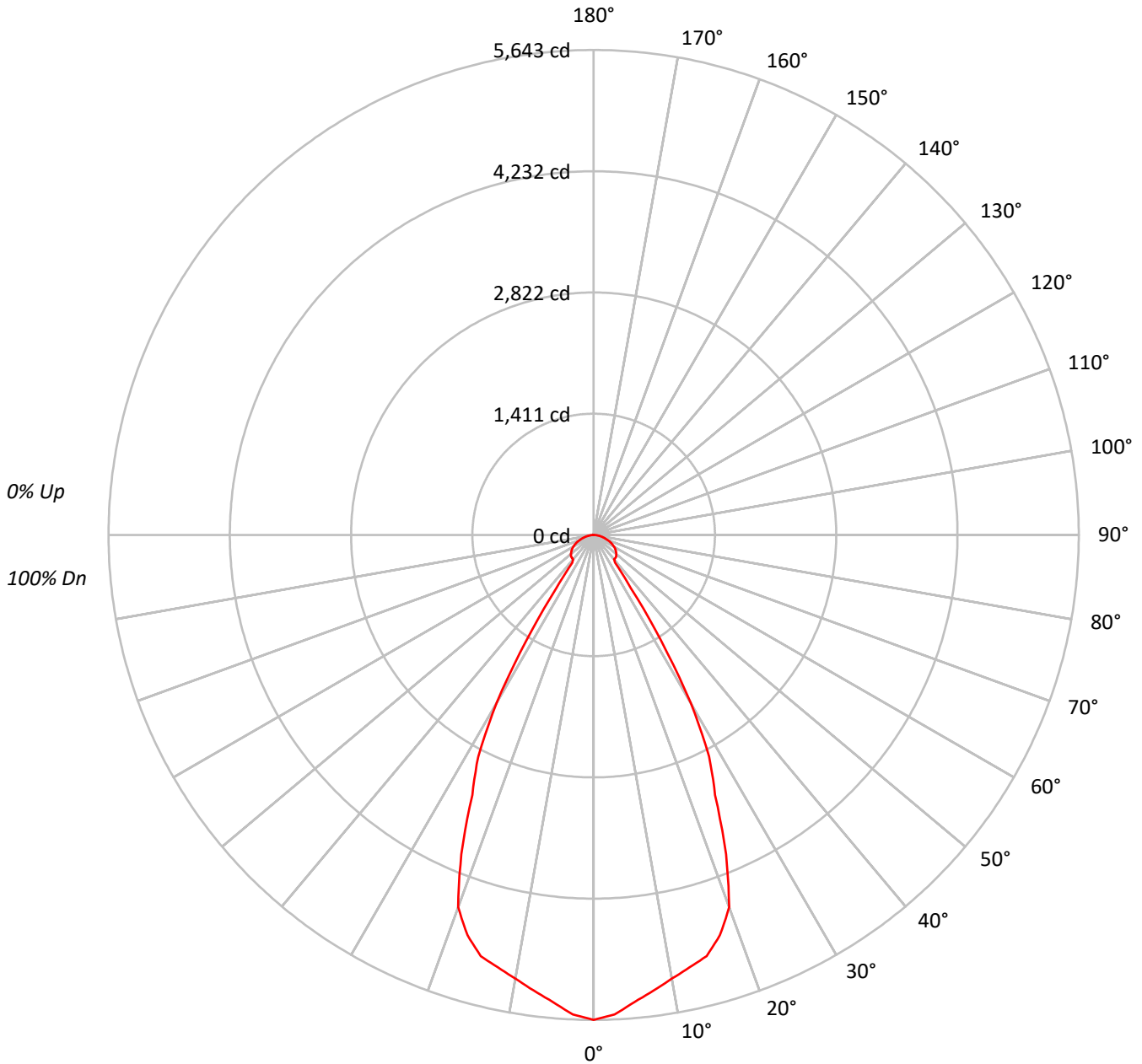
Lumens per Lamp: N/A  
Luminaire Lumens: 5019.4 lumens  
Efficiency: N/A  
Efficacy: 63.6 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 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			
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°	616591
5°	598261
10°	581591
15°	573957
20°	535960
25°	402645
30°	284637
35°	100824
40°	53015
45°	56461
50°	58473
55°	59566
60°	59940
65°	58661
70°	55362
75°	51291
80°	45555
85°	36982

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 59968 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	514.5	10.3
10°-20°	1411.2	28.1
20°-30°	1554.3	31.0
30°-40°	593.9	11.8
40°-50°	280.4	5.6
50°-60°	278.8	5.6
60°-70°	223.2	4.4
70°-80°	128.3	2.6
80°-90°	34.9	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°	3480.0	69.3
0°-40°	4073.9	81.2
0°-60°	4633.1	92.3
0°-90°	5019.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5019.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5643	
5°	5455	514
15°	5074	1411
25°	3340	1554
35°	756	594
45°	365	280
55°	313	279
65°	227	223
75°	122	128
85°	30	35
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5643.3
2.5°	5584.3
5°	5454.7
7.5°	5346.6
10°	5242.1
12.5°	5153.6
15°	5074.1
17.5°	4882.0
20°	4609.5
22.5°	4021.6
25°	3339.9
27.5°	2907.4
30°	2256.1
32.5°	1457.3
35°	755.9
37.5°	408.3
40°	371.7
42.5°	369.0
45°	365.4
47.5°	357.4
50°	344.0
52.5°	328.8
55°	312.7
57.5°	294.9
60°	274.3
62.5°	251.1
65°	226.9
67.5°	200.1
70°	173.3
72.5°	146.5
75°	121.5
77.5°	95.6
80°	72.4
82.5°	50.9
85°	29.5
87.5°	11.6
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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(END OF REPORT)