

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: P754257

Luminaire Tested: LD4D80BD010-EU4DR6070959027-4LBSQW1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754257  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D80BD010-EU4DR6070959027-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

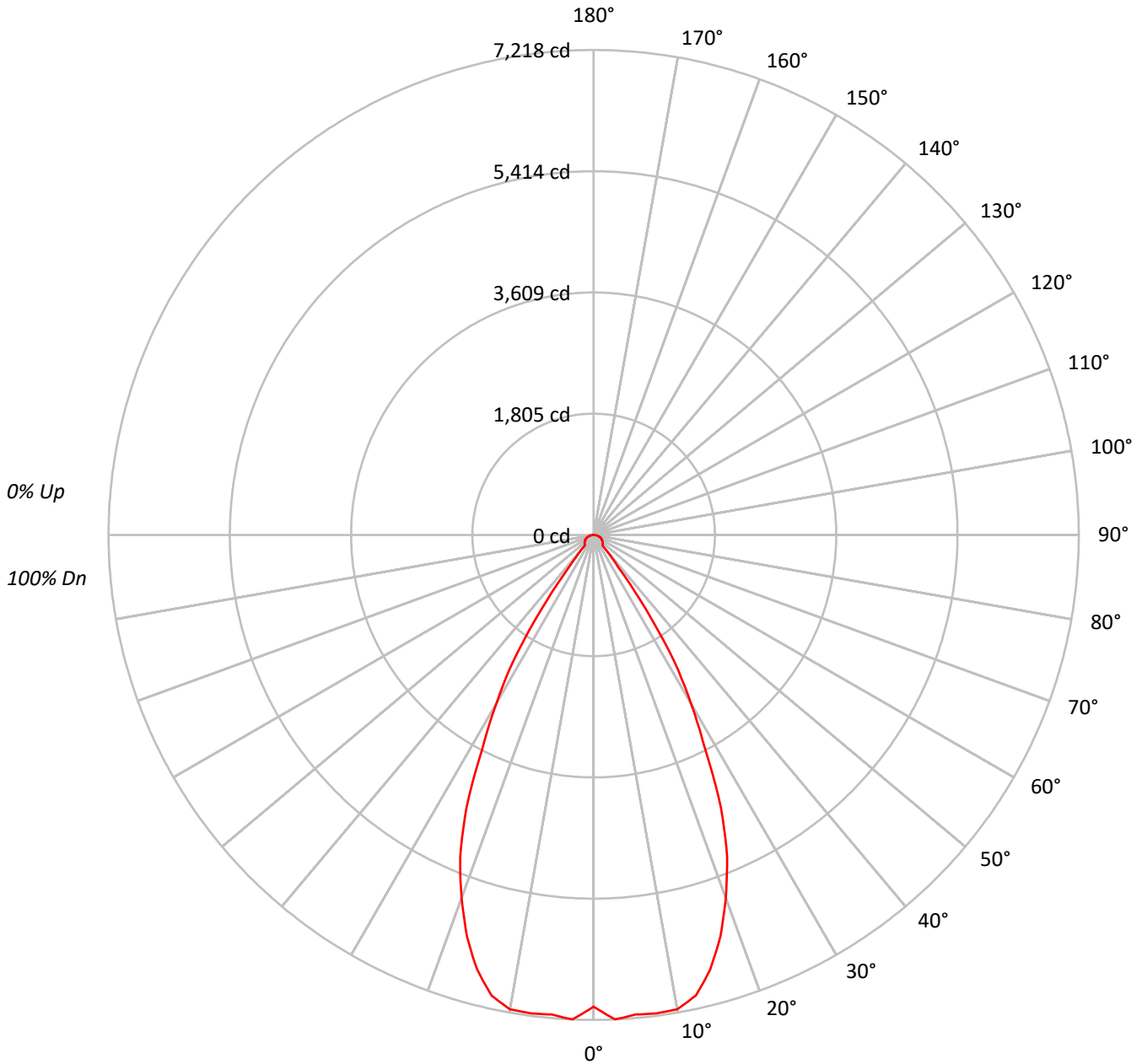
Lumens per Lamp: N/A  
Luminaire Lumens: 5911.5 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

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									
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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

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

	0°
0°	767087
5°	785953
10°	795440
15°	757769
20°	668116
25°	540392
30°	365533
35°	183175
40°	29710
45°	29080
50°	29661
55°	30117
60°	30943
65°	31644
70°	32393
75°	32801
80°	31649
85°	26326

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 75°  
 Luminance: 32801 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	684.9	11.6
10°-20°	1853.0	31.3
20°-30°	1993.7	33.7
30°-40°	866.6	14.7
40°-50°	145.5	2.5
50°-60°	141.5	2.4
60°-70°	121.0	2.0
70°-80°	81.0	1.4
80°-90°	24.2	0.4
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°	4531.6	76.7
0°-40°	5398.2	91.3
0°-60°	5685.3	96.2
0°-90°	5911.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5911.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7021	
5°	7166	685
15°	6699	1853
25°	4482	1994
35°	1373	867
45°	188	146
55°	158	142
65°	122	121
75°	78	81
85°	21	24
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7020.7
2.5°	7218.1
5°	7166.0
7.5°	7182.4
10°	7169.6
12.5°	7021.6
15°	6699.1
17.5°	6266.0
20°	5746.1
22.5°	5189.7
25°	4482.5
27.5°	3585.3
30°	2897.3
32.5°	2233.0
35°	1373.3
37.5°	587.5
40°	208.3
42.5°	191.9
45°	188.2
47.5°	181.8
50°	174.5
52.5°	166.3
55°	158.1
57.5°	149.8
60°	141.6
62.5°	132.5
65°	122.4
67.5°	112.4
70°	101.4
72.5°	89.5
75°	77.7
77.5°	64.0
80°	50.3
82.5°	35.6
85°	21.0
87.5°	7.3
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)