

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: P753778

Luminaire Tested: LD4D80BD010-EU4DR3070959027-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D80BD010-EU4DR3070959027-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6587.6 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

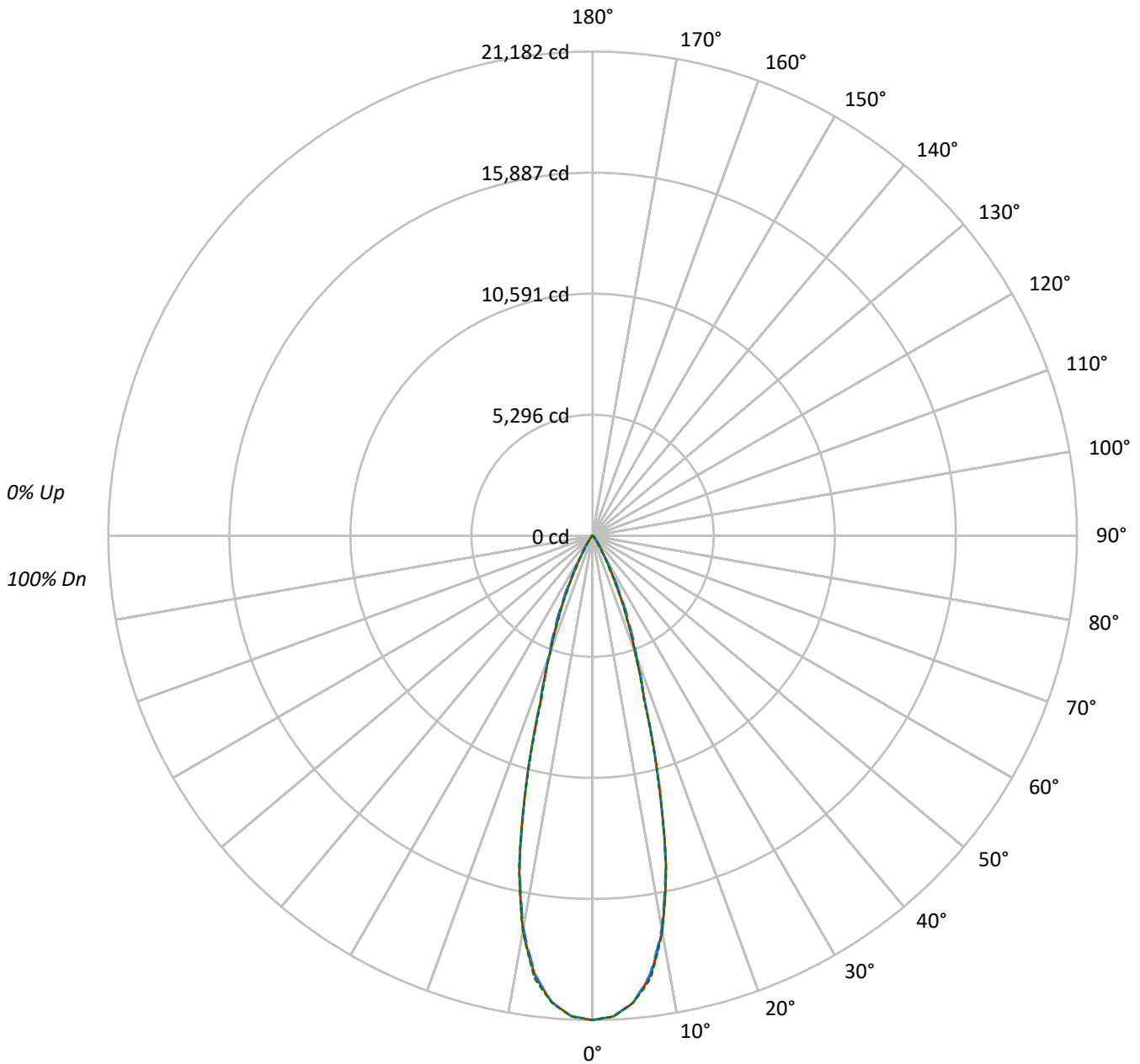
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

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

	0°	45°	90°
0°	1621373	1621373	1621373
5°	1574826	1572990	1574903
10°	1364036	1354422	1363718
15°	889969	885190	880737
20°	442541	459142	441946
25°	222922	251376	218353
30°	89251	97250	77761
35°	41395	39648	33237
40°	17876	19844	16837
45°	12611	15653	12719
50°	4335	11396	4585
55°	2496	4724	2642
60°	1745	2067	1745
65°	1123	1123	1123
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 15653 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1862.7	28.3
10°-20°	2999.9	45.5
20°-30°	1296.3	19.7
30°-40°	295.5	4.5
40°-50°	101.5	1.5
50°-60°	24.8	0.4
60°-70°	6.4	0.1
70°-80°	0.7	0.0
80°-90°	0.0	0.0
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°	6158.8	93.5
0°-40°	6454.3	98.0
0°-60°	6580.5	99.9
0°-90°	6587.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6587.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21182	21182	21182	21182	21182	
5°	20496	20476	20472	20515	20497	1864
15°	11231	11096	11170	11134	11114	3007
25°	2640	2739	2976	2670	2585	1263
35°	443	452	424	421	356	300
45°	116	145	145	145	118	83
55°	19	20	35	21	20	18
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	21182.4	21182.4	21182.4	21182.4	21182.4
2.5°	21042.0	21027.4	21035.8	21046.2	21050.3
5°	20496.0	20476.2	20472.1	20514.7	20497.0
7.5°	19394.7	19366.6	19323.9	19420.7	19511.1
10°	17549.7	17518.5	17426.0	17471.7	17545.6
12.5°	14826.0	14725.1	14723.1	14868.7	14848.9
15°	11230.8	11095.6	11170.5	11134.1	11114.3
17.5°	7552.4	7500.4	7600.2	7570.0	7440.0
20°	5432.9	5446.4	5636.7	5541.0	5425.6
22.5°	3964.4	4013.3	4239.0	3992.5	3902.0
25°	2639.5	2739.3	2976.4	2669.6	2585.4
27.5°	1623.4	1669.2	1909.4	1602.6	1556.9
30°	1009.8	986.9	1100.3	944.3	879.8
32.5°	662.5	633.4	669.7	601.1	549.1
35°	443.0	452.4	424.3	421.2	355.7
37.5°	276.6	318.2	280.8	299.5	228.8
40°	178.9	230.9	198.6	219.4	168.5
42.5°	146.6	177.8	163.3	173.7	149.8
45°	116.5	144.6	144.6	144.6	117.5
47.5°	64.5	96.7	123.8	98.8	68.6
50°	36.4	48.9	95.7	51.0	38.5
52.5°	25.0	28.1	65.5	29.1	26.0
55°	18.7	19.8	35.4	20.8	19.8
57.5°	14.6	15.6	18.7	15.6	14.6
60°	11.4	11.4	13.5	12.5	11.4
62.5°	8.3	8.3	9.4	8.3	8.3
65°	6.2	6.2	6.2	6.2	6.2
67.5°	3.1	4.2	4.2	4.2	4.2
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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