

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: P753782

Luminaire Tested: LD4D80BD010-EU4DR3070959027-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753782  
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-EU4DR3070959027-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7213.9 lumens  
Efficiency: N/A  
Efficacy: 91.4 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

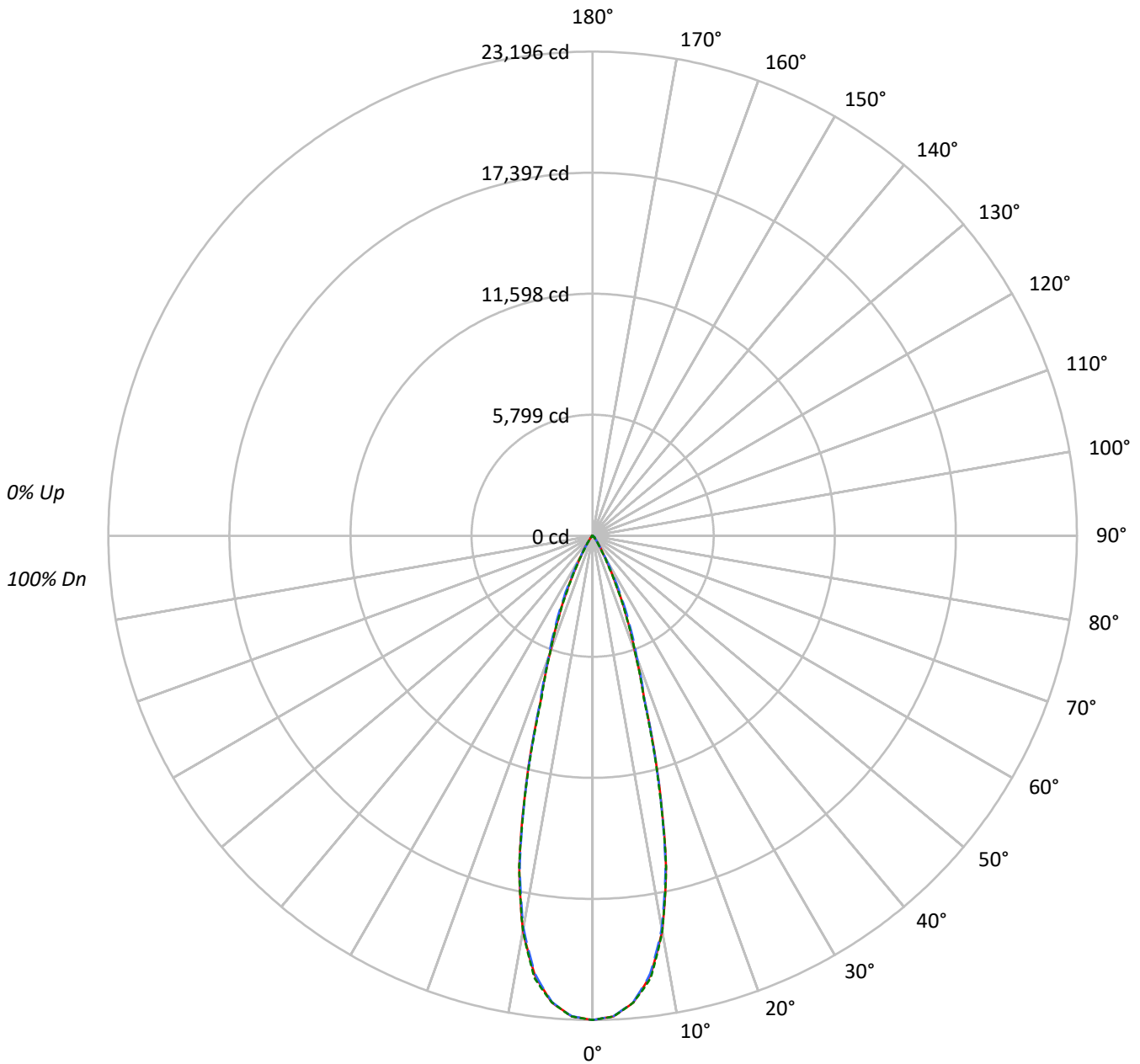
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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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°	1775508	1775508	1775508
5°	1724541	1722528	1724625
10°	1493711	1483180	1493362
15°	974577	969339	964465
20°	484613	502794	483961
25°	244112	275277	239113
30°	97736	106495	85159
35°	45338	43423	36396
40°	19574	21733	18435
45°	13813	17136	13932
50°	4751	12480	5013
55°	2736	5164	2883
60°	1914	2266	1914
65°	1232	1232	1232
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 17136 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2039.7	28.3
10°-20°	3285.0	45.5
20°-30°	1419.6	19.7
30°-40°	323.5	4.5
40°-50°	111.1	1.5
50°-60°	27.1	0.4
60°-70°	7.0	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°	6744.3	93.5
0°-40°	7067.9	98.0
0°-60°	7206.1	99.9
0°-90°	7213.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7213.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23196	23196	23196	23196	23196	
5°	22444	22423	22418	22465	22446	2041
15°	12298	12150	12232	12193	12171	3293
25°	2890	3000	3259	2923	2831	1384
35°	485	495	465	461	390	329
45°	128	158	158	158	129	91
55°	20	22	39	23	22	20
65°	7	7	7	7	7	7
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°	23196.1	23196.1	23196.1	23196.1	23196.1
2.5°	23042.4	23026.5	23035.6	23047.0	23051.5
5°	22444.5	22422.9	22418.3	22465.0	22445.6
7.5°	21238.5	21207.7	21161.0	21266.9	21366.0
10°	19218.1	19184.0	19082.6	19132.7	19213.6
12.5°	16235.5	16125.0	16122.7	16282.2	16260.5
15°	12298.5	12150.4	12232.4	12192.6	12170.9
17.5°	8270.3	8213.4	8322.7	8289.7	8147.3
20°	5949.4	5964.2	6172.6	6067.8	5941.4
22.5°	4341.3	4394.8	4642.0	4372.1	4273.0
25°	2890.4	2999.7	3259.4	2923.4	2831.2
27.5°	1777.7	1827.9	2090.9	1755.0	1704.9
30°	1105.8	1080.8	1204.9	1034.1	963.5
32.5°	725.4	693.6	733.4	658.3	601.3
35°	485.2	495.4	464.7	461.2	389.5
37.5°	302.9	348.5	307.5	328.0	250.5
40°	195.9	252.8	217.5	240.3	184.5
42.5°	160.6	194.7	178.8	190.2	164.0
45°	127.6	158.3	158.3	158.3	128.7
47.5°	70.6	105.9	135.5	108.2	75.2
50°	39.9	53.5	104.8	55.8	42.1
52.5°	27.3	30.7	71.7	31.9	28.5
55°	20.5	21.6	38.7	22.8	21.6
57.5°	15.9	17.1	20.5	17.1	15.9
60°	12.5	12.5	14.8	13.7	12.5
62.5°	9.1	9.1	10.2	9.1	9.1
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.6	4.6	4.6	4.6
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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