

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: P753788

Luminaire Tested: LD4D80BD010-EU4DR3070959027-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753788  
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-EU4DR3070959027-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7218.1 lumens  
Efficiency: N/A  
Efficacy: 91.5 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 (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

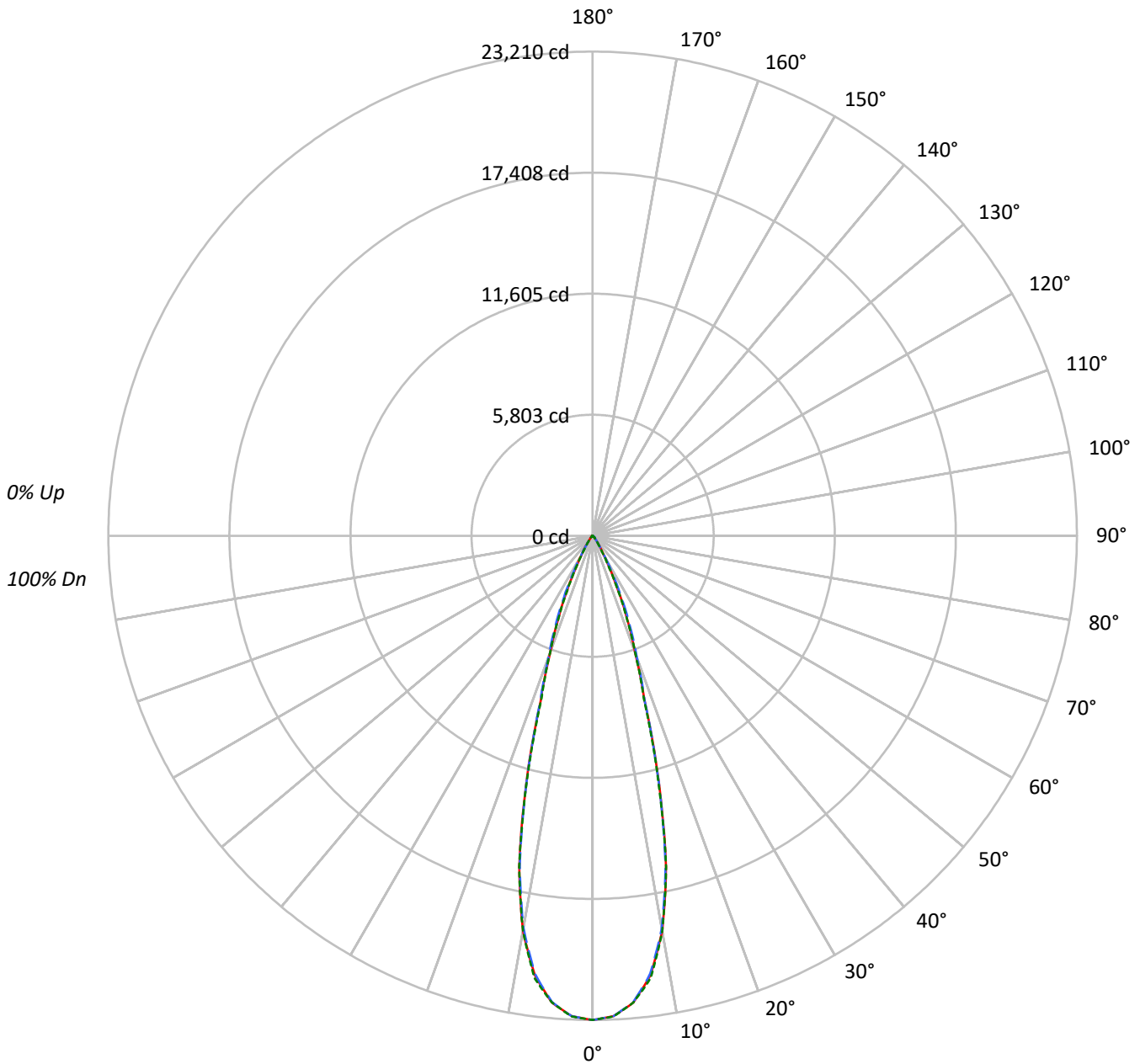


Downlight

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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	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°	1776542	1776542	1776542
5°	1725540	1723526	1725632
10°	1494582	1484043	1494224
15°	975139	969901	965028
20°	484890	503087	484238
25°	244256	275437	239248
30°	97798	106557	85203
35°	45357	43441	36414
40°	19584	21743	18445
45°	13813	17147	13942
50°	4751	12480	5025
55°	2736	5164	2896
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: 17147 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2040.9	28.3
10°-20°	3286.9	45.5
20°-30°	1420.4	19.7
30°-40°	323.7	4.5
40°-50°	111.2	1.5
50°-60°	27.2	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°	6748.3	93.5
0°-40°	7072.0	98.0
0°-60°	7210.3	99.9
0°-90°	7218.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7218.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23210	23210	23210	23210	23210	
5°	22458	22436	22431	22478	22459	2043
15°	12306	12158	12240	12200	12178	3295
25°	2892	3002	3261	2925	2833	1384
35°	485	496	465	462	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°	23209.6	23209.6	23209.6	23209.6	23209.6
2.5°	23055.8	23039.8	23048.9	23060.3	23064.9
5°	22457.5	22435.9	22431.3	22478.0	22458.7
7.5°	21250.8	21220.0	21173.3	21279.3	21378.4
10°	19229.3	19195.1	19093.7	19143.8	19224.7
12.5°	16244.9	16134.4	16132.1	16291.6	16270.0
15°	12305.6	12157.5	12239.5	12199.6	12178.0
17.5°	8275.1	8218.2	8327.6	8294.5	8152.1
20°	5952.8	5967.6	6176.2	6071.3	5944.8
22.5°	4343.8	4397.4	4644.7	4374.6	4275.5
25°	2892.1	3001.5	3261.3	2925.1	2832.8
27.5°	1778.8	1828.9	2092.1	1756.0	1705.9
30°	1106.5	1081.4	1205.6	1034.7	964.0
32.5°	725.9	694.0	733.8	658.6	601.7
35°	485.4	495.7	464.9	461.5	389.7
37.5°	303.1	348.7	307.7	328.2	250.7
40°	196.0	253.0	217.6	240.4	184.6
42.5°	160.7	194.9	178.9	190.3	164.1
45°	127.6	158.4	158.4	158.4	128.8
47.5°	70.6	106.0	135.6	108.3	75.2
50°	39.9	53.6	104.8	55.8	42.2
52.5°	27.3	30.8	71.8	31.9	28.5
55°	20.5	21.7	38.7	22.8	21.7
57.5°	16.0	17.1	20.5	17.1	16.0
60°	12.5	12.5	14.8	13.7	12.5
62.5°	9.1	9.1	10.3	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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