

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: P744144

Luminaire Tested: LD4D20D010-EU4DR3020359035-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744144  
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: LD4D20D010-EU4DR3020359035-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1598.2 lumens  
Efficiency: N/A  
Efficacy: 69.2 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): 23.1  
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



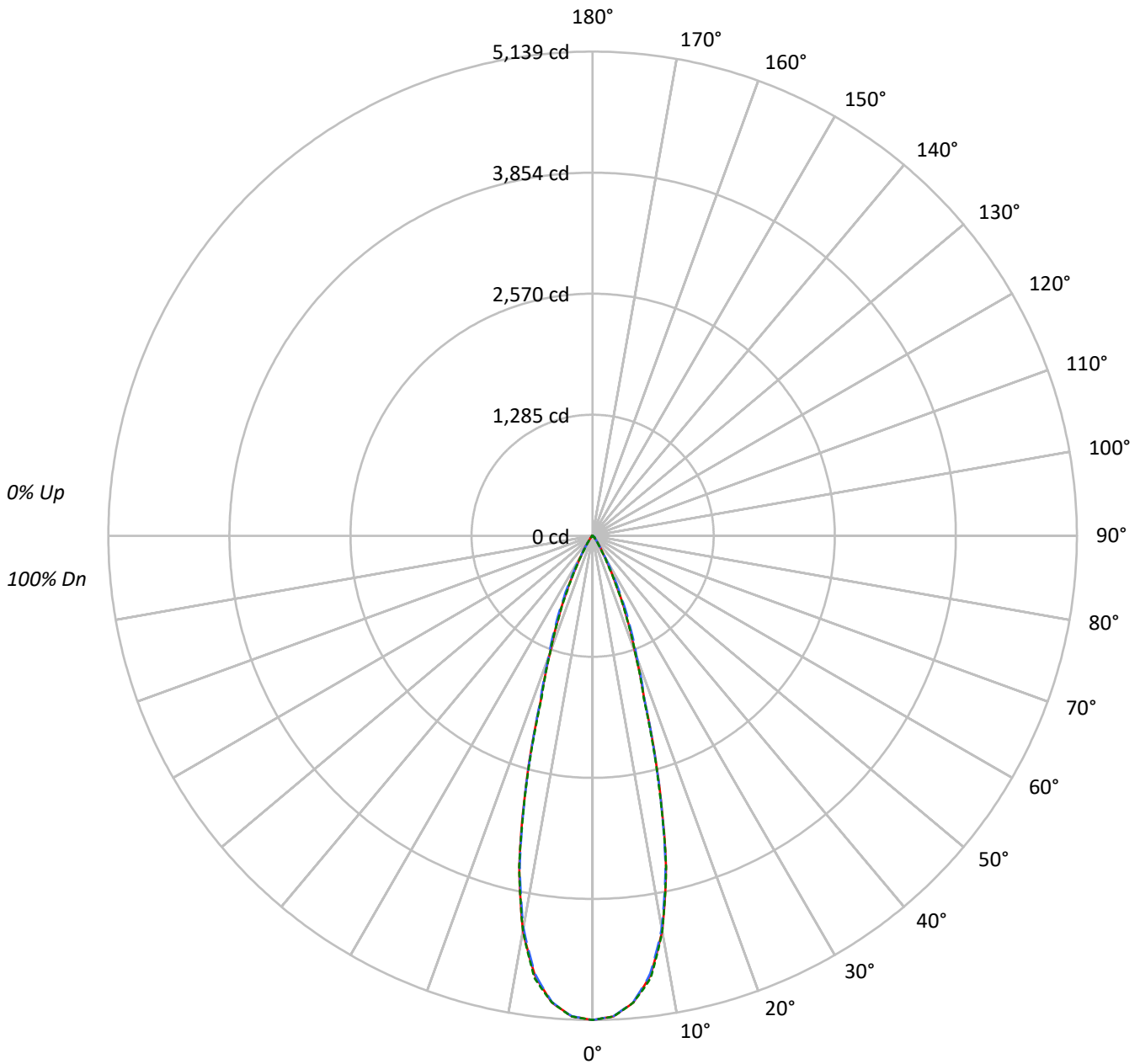
Downlight



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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	87	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°	393357	393357	393357
5°	382066	381613	382081
10°	330926	328587	330849
15°	215915	214750	213672
20°	107367	111391	107220
25°	54077	60986	52971
30°	21654	23590	18861
35°	10045	9625	8064
40°	4337	4816	4087
45°	3053	3800	3085
50°	1048	2763	1107
55°	601	1148	641
60°	429	505	429
65°	272	272	272
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3800 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.9	28.3
10°-20°	727.8	45.5
20°-30°	314.5	19.7
30°-40°	71.7	4.5
40°-50°	24.6	1.5
50°-60°	6.0	0.4
60°-70°	1.5	0.1
70°-80°	0.1	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°	1494.2	93.5
0°-40°	1565.8	98.0
0°-60°	1596.5	99.9
0°-90°	1598.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1598.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5139	5139	5139	5139	5139	
5°	4972	4968	4967	4977	4973	452
15°	2725	2692	2710	2701	2696	730
25°	640	665	722	648	627	307
35°	108	110	103	102	86	73
45°	28	35	35	35	28	20
55°	4	5	9	5	5	4
65°	2	2	2	2	2	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5139.0	5139.0	5139.0	5139.0	5139.0
2.5°	5104.9	5101.4	5103.4	5105.9	5106.9
5°	4972.5	4967.7	4966.6	4977.0	4972.7
7.5°	4705.2	4698.4	4688.1	4711.5	4733.5
10°	4257.7	4250.1	4227.6	4238.7	4256.7
12.5°	3596.9	3572.4	3571.9	3607.2	3602.4
15°	2724.7	2691.8	2710.0	2701.2	2696.4
17.5°	1832.2	1819.6	1843.9	1836.5	1805.0
20°	1318.1	1321.3	1367.5	1344.3	1316.3
22.5°	961.8	973.7	1028.4	968.6	946.6
25°	640.3	664.6	722.1	647.7	627.2
27.5°	393.8	405.0	463.2	388.8	377.7
30°	245.0	239.4	266.9	229.1	213.4
32.5°	160.7	153.7	162.5	145.8	133.2
35°	107.5	109.8	103.0	102.2	86.3
37.5°	67.1	77.2	68.1	72.7	55.5
40°	43.4	56.0	48.2	53.2	40.9
42.5°	35.6	43.1	39.6	42.1	36.3
45°	28.2	35.1	35.1	35.1	28.5
47.5°	15.6	23.5	30.0	23.9	16.7
50°	8.8	11.9	23.2	12.4	9.3
52.5°	6.1	6.8	15.9	7.0	6.3
55°	4.5	4.8	8.6	5.0	4.8
57.5°	3.6	3.8	4.5	3.8	3.6
60°	2.8	2.8	3.3	3.0	2.8
62.5°	2.0	2.0	2.3	2.0	2.0
65°	1.5	1.5	1.5	1.5	1.5
67.5°	0.7	1.0	1.0	1.0	1.0
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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