

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: P745798

Luminaire Tested: LD4D30D010-EU4DR1515309050-4LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D30D010-EU4DR1515309050-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2731.2 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
CIE Type: Direct

Input Watts (W): 29  
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

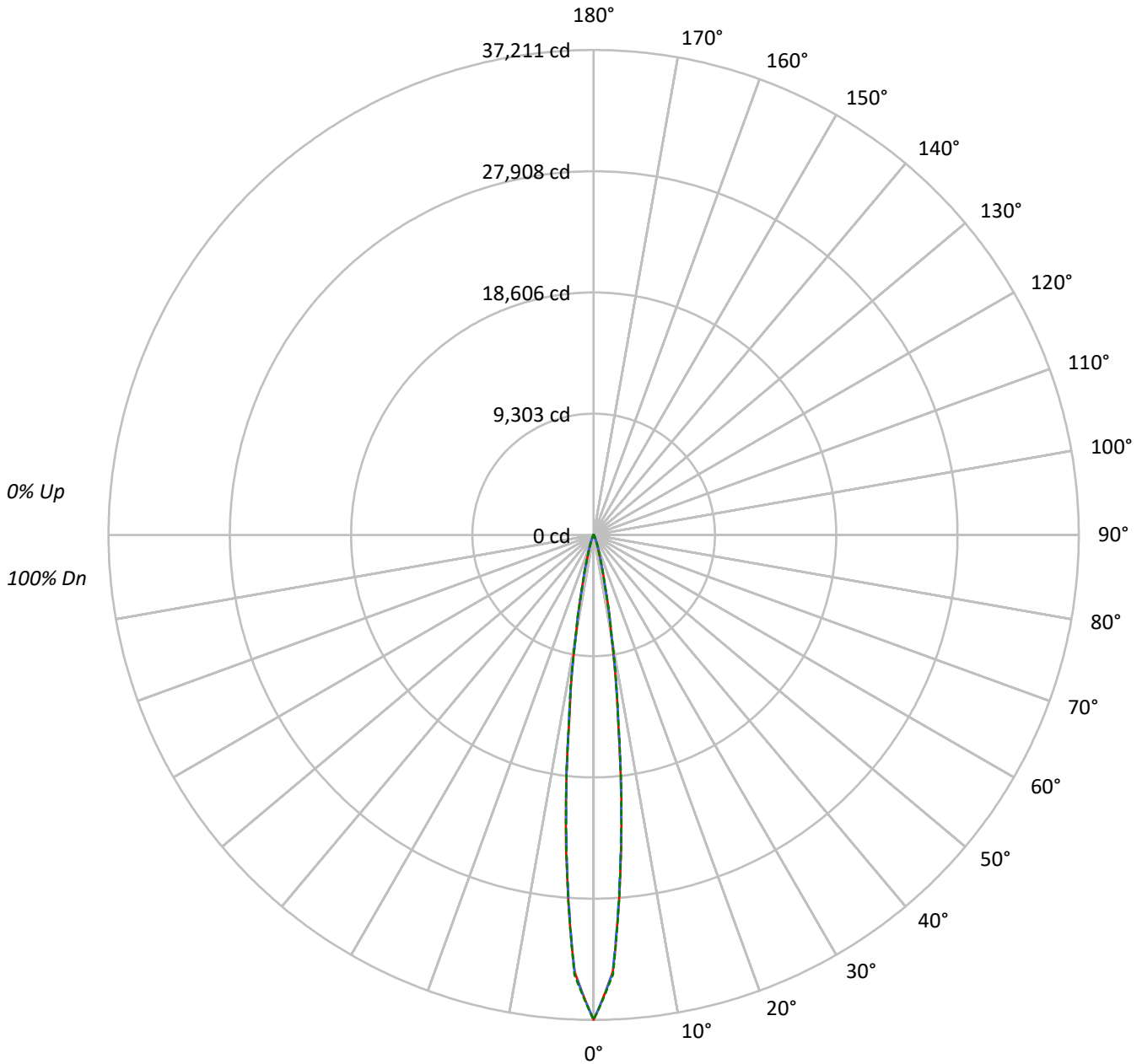


Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

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

	0°	45°	90°
0°	4187014	4187014	4187014
5°	2460487	2428626	2447834
10°	734340	739481	750800
15°	182660	186221	180471
20°	54649	63290	55811
25°	19265	24547	19514
30°	7076	9315	7196
35°	3544	4001	3435
40°	2237	2464	2237
45°	1652	1764	1652
50°	1314	1314	1314
55°	1100	1100	1100
60°	885	885	885
65°	678	678	678
70°	578	578	578
75°	355	355	476
80°	252	252	252
85°	133	133	133

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1764 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1771.3	64.9
10°-20°	728.6	26.7
20°-30°	144.7	5.3
30°-40°	36.1	1.3
40°-50°	19.0	0.7
50°-60°	14.1	0.5
60°-70°	10.0	0.4
70°-80°	5.7	0.2
80°-90°	1.7	0.1
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°	2644.7	96.8
0°-40°	2680.8	98.2
0°-60°	2713.9	99.4
0°-90°	2731.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2731.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	37211	37211	37211	37211	37211	
5°	24210	23962	23897	24062	24086	1768
15°	2103	2142	2144	2106	2078	721
25°	247	280	315	279	250	130
35°	49	52	55	52	47	33
45°	24	24	25	24	24	18
55°	16	16	16	16	16	14
65°	10	10	10	10	10	10
75°	5	5	5	5	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	37211.3	37211.3	37211.3	37211.3	37211.3
2.5°	33566.1	33594.4	33605.5	33638.5	33761.4
5°	24210.5	23961.6	23897.0	24062.4	24086.0
7.5°	14341.4	14391.8	14576.1	14617.0	14469.0
10°	7870.1	7934.7	7925.2	7981.9	8046.5
12.5°	4024.8	3974.4	3958.7	4023.3	3933.5
15°	2103.0	2142.4	2144.0	2106.2	2077.8
17.5°	1131.1	1176.7	1252.3	1190.9	1096.4
20°	667.9	708.9	773.5	723.1	682.1
22.5°	412.7	445.8	491.5	452.1	419.0
25°	247.3	280.4	315.1	278.8	250.5
27.5°	146.5	174.9	196.9	173.3	144.9
30°	94.5	110.3	124.4	108.7	96.1
32.5°	66.2	72.5	78.8	72.5	66.2
35°	48.8	52.0	55.1	52.0	47.3
37.5°	37.8	41.0	42.5	39.4	36.2
40°	31.5	33.1	34.7	33.1	31.5
42.5°	26.8	28.4	28.4	28.4	26.8
45°	23.6	23.6	25.2	23.6	23.6
47.5°	20.5	20.5	22.1	20.5	20.5
50°	18.9	18.9	18.9	18.9	18.9
52.5°	17.3	17.3	17.3	17.3	17.3
55°	15.8	15.8	15.8	15.8	15.8
57.5°	14.2	14.2	14.2	14.2	14.2
60°	12.6	12.6	12.6	12.6	12.6
62.5°	11.0	11.0	11.0	11.0	11.0
65°	9.5	9.5	9.5	9.5	9.5
67.5°	9.5	9.5	9.5	9.5	9.5
70°	7.9	7.9	7.9	7.9	7.9
72.5°	6.3	6.3	6.3	6.3	6.3
75°	4.7	4.7	4.7	4.7	6.3
77.5°	4.7	4.7	4.7	4.7	4.7
80°	3.2	3.2	3.2	3.2	3.2
82.5°	3.2	3.2	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	1.6
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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(END OF REPORT)