

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: P745772

Luminaire Tested: LD4D30D010-EU4DR1515309035-4LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745772  
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-EU4DR1515309035-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2689.4 lumens  
Efficiency: N/A  
Efficacy: 92.7 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

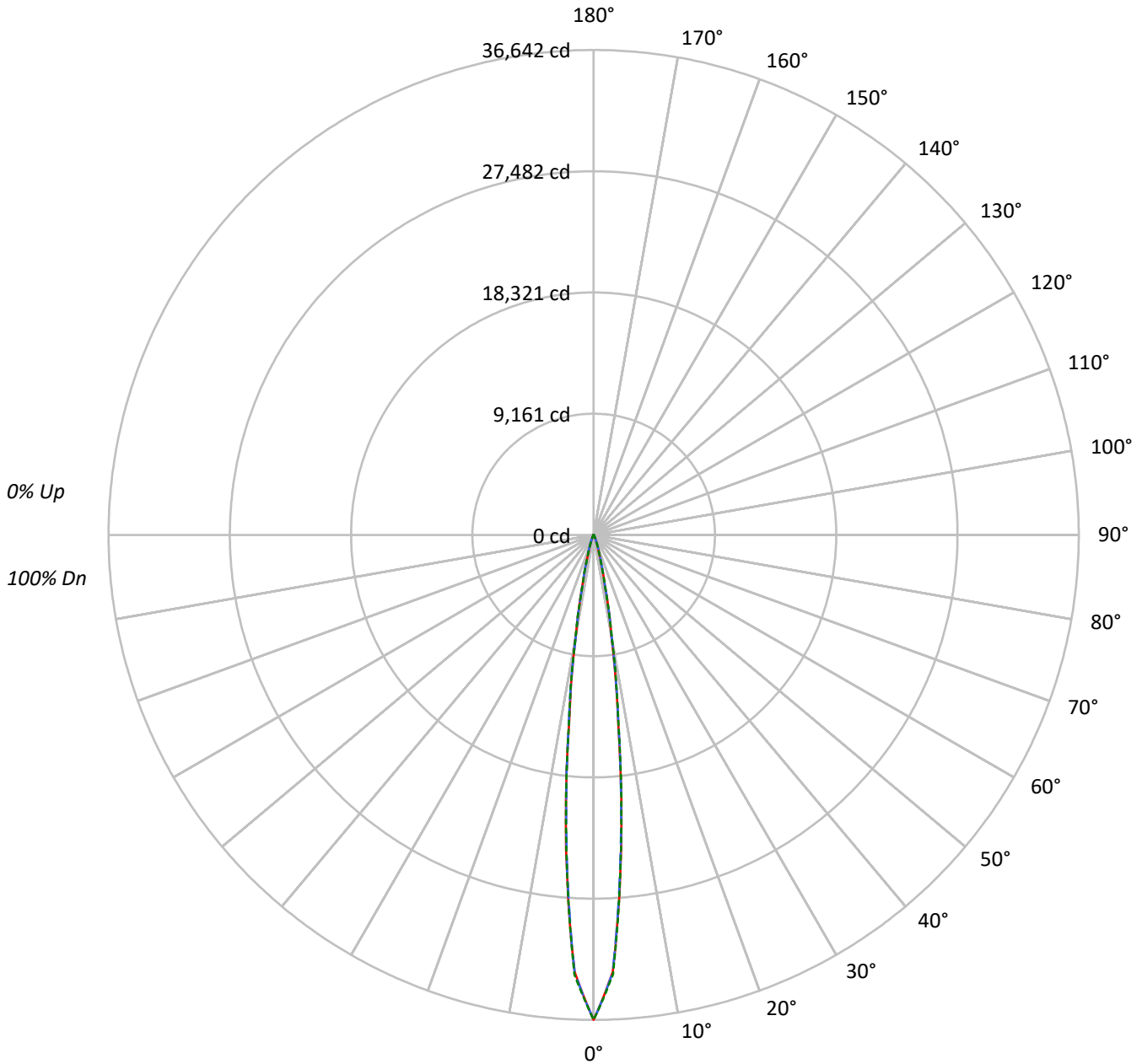


Downlight



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

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

	0°	45°	90°
0°	4122978	4122978	4122978
5°	2422853	2391481	2410404
10°	723106	728172	739323
15°	179863	183372	177709
20°	53815	62316	54960
25°	18969	24165	19210
30°	6971	9173	7084
35°	3493	3943	3377
40°	2201	2422	2201
45°	1631	1736	1631
50°	1293	1293	1293
55°	1079	1079	1079
60°	871	871	871
65°	664	664	664
70°	570	570	570
75°	355	355	469
80°	244	244	244
85°	133	133	133

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1736 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1744.2	64.9
10°-20°	717.5	26.7
20°-30°	142.5	5.3
30°-40°	35.6	1.3
40°-50°	18.7	0.7
50°-60°	13.9	0.5
60°-70°	9.8	0.4
70°-80°	5.6	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°	2604.2	96.8
0°-40°	2639.8	98.2
0°-60°	2672.3	99.4
0°-90°	2689.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2689.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	36642	36642	36642	36642	36642	
5°	23840	23595	23532	23694	23718	1741
15°	2071	2110	2111	2074	2046	710
25°	244	276	310	275	247	128
35°	48	51	54	51	46	33
45°	23	23	25	23	23	18
55°	16	16	16	16	16	14
65°	9	9	9	9	9	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°	36642.2	36642.2	36642.2	36642.2	36642.2
2.5°	33052.7	33080.6	33091.5	33124.1	33245.1
5°	23840.2	23595.1	23531.5	23694.4	23717.7
7.5°	14122.0	14171.7	14353.1	14393.5	14247.7
10°	7749.7	7813.3	7804.0	7859.9	7923.5
12.5°	3963.3	3913.6	3898.1	3961.7	3873.3
15°	2070.8	2109.6	2111.2	2073.9	2046.0
17.5°	1113.8	1158.7	1233.2	1172.7	1079.6
20°	657.7	698.0	761.6	712.0	671.7
22.5°	406.4	439.0	484.0	445.2	412.6
25°	243.5	276.1	310.2	274.6	246.6
27.5°	144.3	172.2	193.9	170.6	142.7
30°	93.1	108.6	122.5	107.0	94.6
32.5°	65.1	71.4	77.6	71.4	65.1
35°	48.1	51.2	54.3	51.2	46.5
37.5°	37.2	40.3	41.9	38.8	35.7
40°	31.0	32.6	34.1	32.6	31.0
42.5°	26.4	27.9	27.9	27.9	26.4
45°	23.3	23.3	24.8	23.3	23.3
47.5°	20.2	20.2	21.7	20.2	20.2
50°	18.6	18.6	18.6	18.6	18.6
52.5°	17.1	17.1	17.1	17.1	17.1
55°	15.5	15.5	15.5	15.5	15.5
57.5°	14.0	14.0	14.0	14.0	14.0
60°	12.4	12.4	12.4	12.4	12.4
62.5°	10.9	10.9	10.9	10.9	10.9
65°	9.3	9.3	9.3	9.3	9.3
67.5°	9.3	9.3	9.3	9.3	9.3
70°	7.8	7.8	7.8	7.8	7.8
72.5°	6.2	6.2	6.2	6.2	6.2
75°	4.7	4.7	4.7	4.7	6.2
77.5°	4.7	4.7	4.7	4.7	4.7
80°	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1
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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