

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: P745808

Luminaire Tested: LD4D30D010-EU4DR1515309050-4LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745808  
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-EU4DR1515309050-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF 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: 2633.9 lumens  
Efficiency: N/A  
Efficacy: 90.8 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



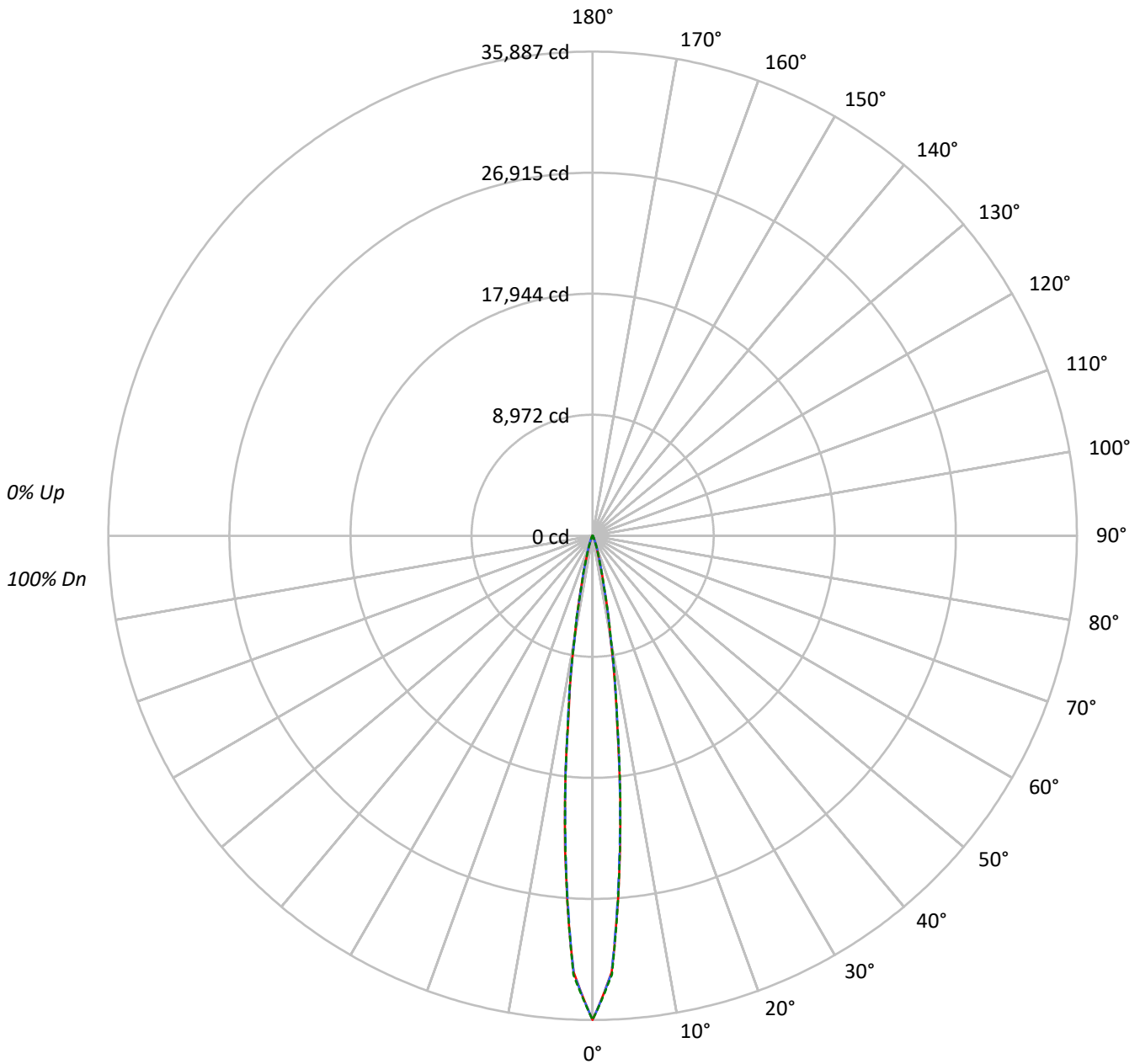
Downlight



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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	88	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°	4037970	4037970	4037970
5°	2372903	2342180	2360707
10°	708205	713159	724076
15°	176154	179585	174044
20°	52702	61032	53823
25°	18579	23666	18821
30°	6829	8986	6941
35°	3420	3863	3311
40°	2159	2372	2159
45°	1596	1701	1596
50°	1266	1266	1266
55°	1058	1058	1058
60°	857	857	857
65°	649	649	649
70°	556	556	556
75°	348	348	461
80°	236	236	236
85°	125	125	125

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1701 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1708.3	64.9
10°-20°	702.7	26.7
20°-30°	139.6	5.3
30°-40°	34.8	1.3
40°-50°	18.3	0.7
50°-60°	13.6	0.5
60°-70°	9.6	0.4
70°-80°	5.5	0.2
80°-90°	1.6	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°	2550.5	96.8
0°-40°	2585.3	98.2
0°-60°	2617.2	99.4
0°-90°	2633.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2633.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	35887	35887	35887	35887	35887	
5°	23349	23109	23046	23206	23229	1705
15°	2028	2066	2068	2031	2004	695
25°	238	270	304	269	242	125
35°	47	50	53	50	46	32
45°	23	23	24	23	23	18
55°	15	15	15	15	15	14
65°	9	9	9	9	9	10
75°	5	5	5	5	6	5
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°	35886.7	35886.7	35886.7	35886.7	35886.7
2.5°	32371.3	32398.6	32409.3	32441.2	32559.7
5°	23348.7	23108.7	23046.4	23205.9	23228.7
7.5°	13830.9	13879.5	14057.2	14096.7	13953.9
10°	7590.0	7652.3	7643.1	7697.8	7760.1
12.5°	3881.6	3833.0	3817.8	3880.1	3793.5
15°	2028.1	2066.1	2067.6	2031.2	2003.8
17.5°	1090.8	1134.8	1207.8	1148.5	1057.4
20°	644.1	683.6	745.9	697.3	657.8
22.5°	398.0	429.9	474.0	436.0	404.1
25°	238.5	270.4	303.8	268.9	241.6
27.5°	141.3	168.6	189.9	167.1	139.8
30°	91.2	106.3	120.0	104.8	92.7
32.5°	63.8	69.9	76.0	69.9	63.8
35°	47.1	50.1	53.2	50.1	45.6
37.5°	36.5	39.5	41.0	38.0	34.9
40°	30.4	31.9	33.4	31.9	30.4
42.5°	25.8	27.3	27.3	27.3	25.8
45°	22.8	22.8	24.3	22.8	22.8
47.5°	19.7	19.7	21.3	19.7	19.7
50°	18.2	18.2	18.2	18.2	18.2
52.5°	16.7	16.7	16.7	16.7	16.7
55°	15.2	15.2	15.2	15.2	15.2
57.5°	13.7	13.7	13.7	13.7	13.7
60°	12.2	12.2	12.2	12.2	12.2
62.5°	10.6	10.6	10.6	10.6	10.6
65°	9.1	9.1	9.1	9.1	9.1
67.5°	9.1	9.1	9.1	9.1	9.1
70°	7.6	7.6	7.6	7.6	7.6
72.5°	6.1	6.1	6.1	6.1	6.1
75°	4.6	4.6	4.6	4.6	6.1
77.5°	4.6	4.6	4.6	4.6	4.6
80°	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0
85°	1.5	1.5	1.5	1.5	1.5
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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