

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: P745769

Luminaire Tested: LD4D30D010-EU4DR1515309030-4LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745769  
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-EU4DR1515309030-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2456.9 lumens  
Efficiency: N/A  
Efficacy: 84.7 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



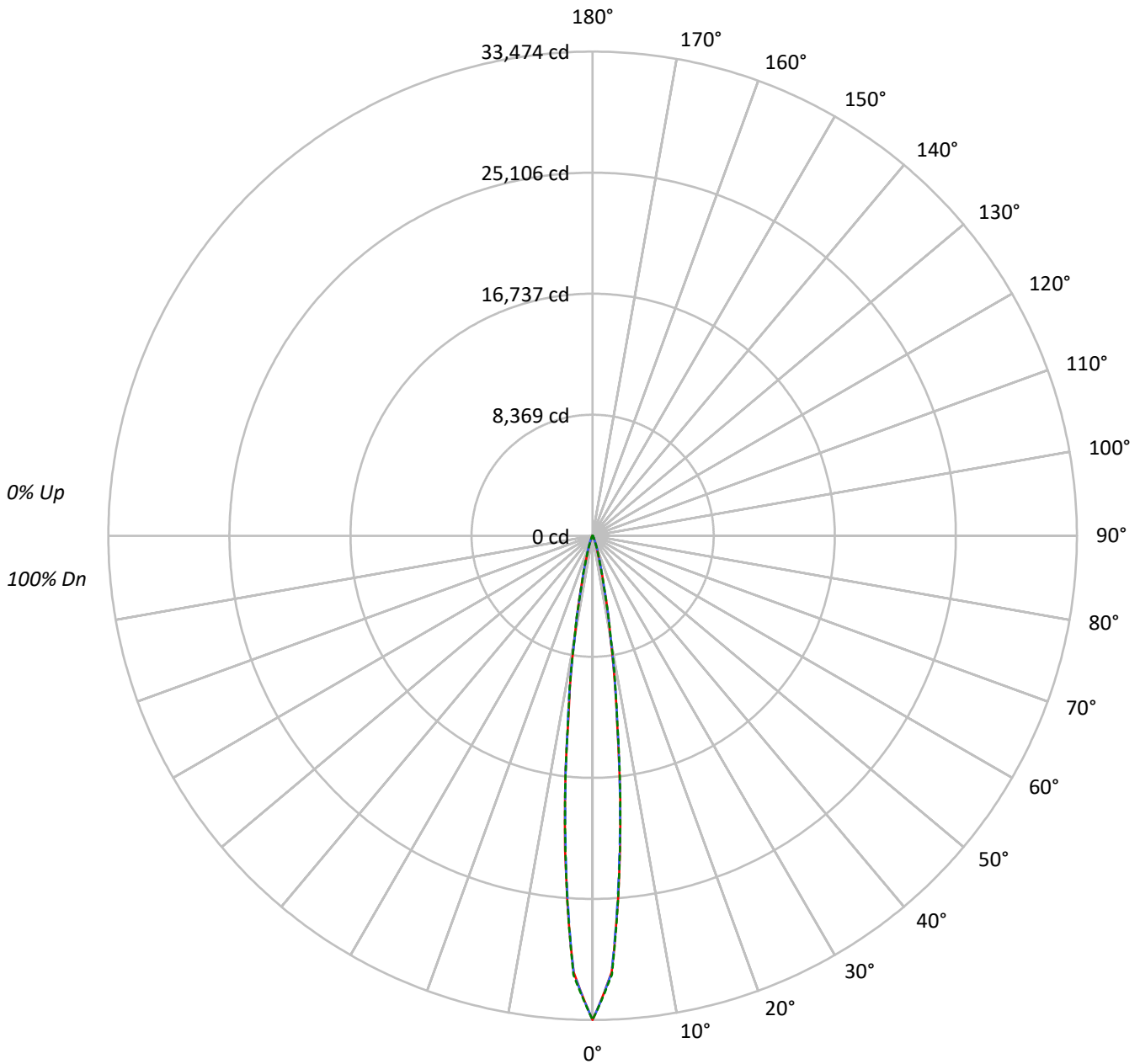
Downlight



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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	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	88	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°	3766515	3766515	3766515
5°	2213386	2184727	2202004
10°	660590	665218	675398
15°	164316	167512	162344
20°	49159	56932	50206
25°	17333	22077	17551
30°	6365	8379	6470
35°	3188	3602	3086
40°	2010	2216	2010
45°	1491	1589	1491
50°	1182	1182	1182
55°	988	988	988
60°	793	793	793
65°	607	607	607
70°	519	519	519
75°	325	325	431
80°	221	221	221
85°	116	116	116

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1589 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1593.4	64.9
10°-20°	655.4	26.7
20°-30°	130.2	5.3
30°-40°	32.5	1.3
40°-50°	17.1	0.7
50°-60°	12.7	0.5
60°-70°	8.9	0.4
70°-80°	5.1	0.2
80°-90°	1.5	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°	2379.0	96.8
0°-40°	2411.5	98.2
0°-60°	2441.3	99.4
0°-90°	2456.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	33474	33474	33474	33474	33474	
5°	21779	21555	21497	21646	21667	1590
15°	1892	1927	1929	1895	1869	649
25°	222	252	283	251	225	117
35°	44	47	50	47	42	30
45°	21	21	23	21	21	17
55°	14	14	14	14	14	13
65°	8	8	8	8	8	9
75°	4	4	4	4	6	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	33474.2	33474.2	33474.2	33474.2	33474.2
2.5°	30195.1	30220.6	30230.5	30260.3	30370.8
5°	21779.1	21555.2	21497.1	21645.8	21667.1
7.5°	12901.1	12946.4	13112.2	13149.1	13015.9
10°	7079.7	7137.8	7129.3	7180.3	7238.4
12.5°	3620.6	3575.3	3561.1	3619.2	3538.4
15°	1891.8	1927.2	1928.6	1894.6	1869.1
17.5°	1017.5	1058.6	1126.6	1071.3	986.3
20°	600.8	637.7	695.8	650.4	613.6
22.5°	371.3	401.0	442.1	406.7	376.9
25°	222.5	252.2	283.4	250.8	225.3
27.5°	131.8	157.3	177.1	155.9	130.4
30°	85.0	99.2	111.9	97.8	86.4
32.5°	59.5	65.2	70.9	65.2	59.5
35°	43.9	46.8	49.6	46.8	42.5
37.5°	34.0	36.8	38.3	35.4	32.6
40°	28.3	29.8	31.2	29.8	28.3
42.5°	24.1	25.5	25.5	25.5	24.1
45°	21.3	21.3	22.7	21.3	21.3
47.5°	18.4	18.4	19.8	18.4	18.4
50°	17.0	17.0	17.0	17.0	17.0
52.5°	15.6	15.6	15.6	15.6	15.6
55°	14.2	14.2	14.2	14.2	14.2
57.5°	12.8	12.8	12.8	12.8	12.8
60°	11.3	11.3	11.3	11.3	11.3
62.5°	9.9	9.9	9.9	9.9	9.9
65°	8.5	8.5	8.5	8.5	8.5
67.5°	8.5	8.5	8.5	8.5	8.5
70°	7.1	7.1	7.1	7.1	7.1
72.5°	5.7	5.7	5.7	5.7	5.7
75°	4.3	4.3	4.3	4.3	5.7
77.5°	4.3	4.3	4.3	4.3	4.3
80°	2.8	2.8	2.8	2.8	2.8
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4
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)