

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: P744849

Luminaire Tested: LD4D25D010-EU4DR1515309040-4LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744849  
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: LD4D25D010-EU4DR1515309040-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2458.9 lumens  
Efficiency: N/A  
Efficacy: 98.0 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): 25.1  
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

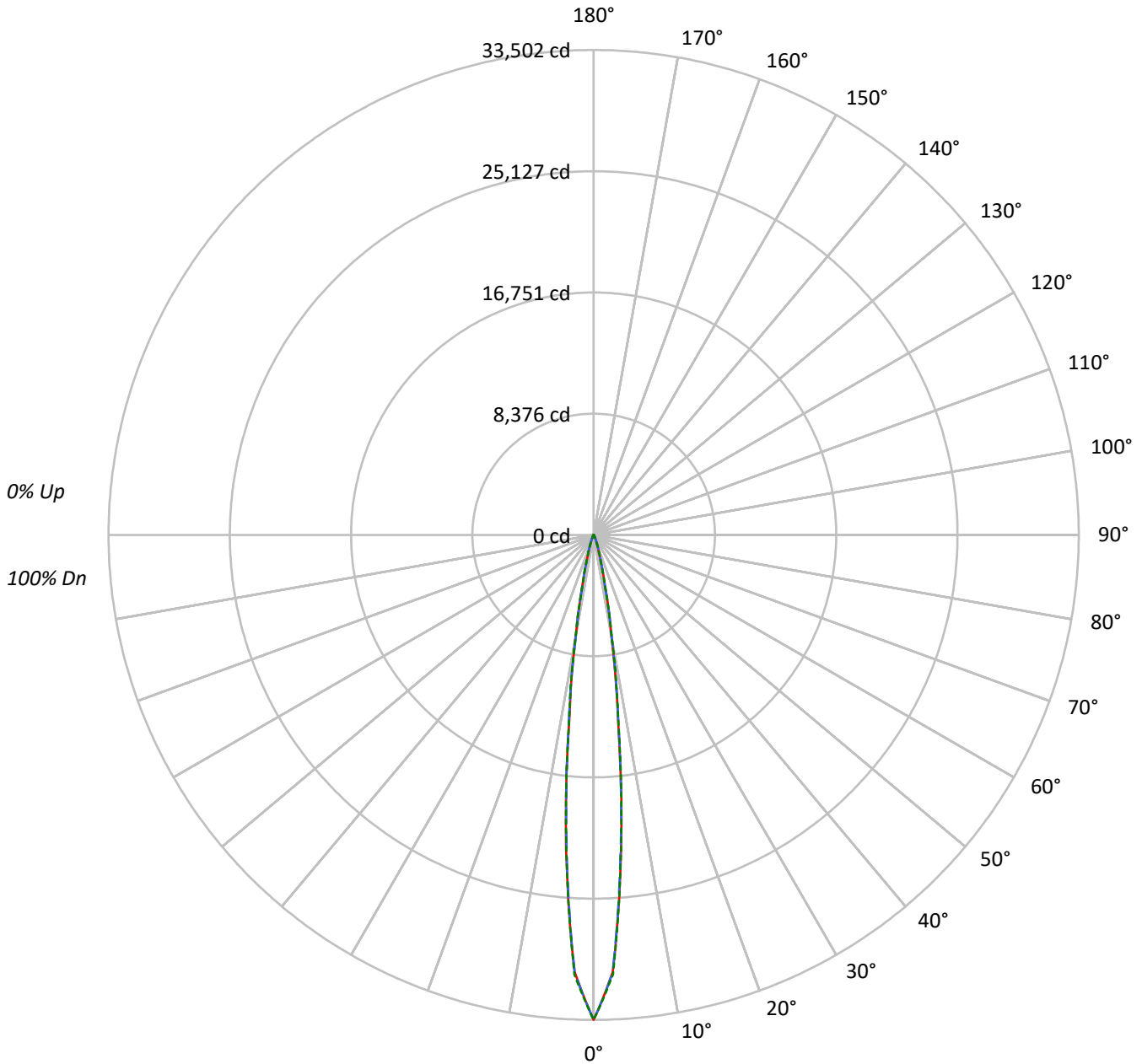


Downlight



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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						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°	3769688	3769688	3769688
5°	2215246	2186556	2203853
10°	661150	665778	675967
15°	164455	167660	162483
20°	49200	56981	50247
25°	17348	22100	17567
30°	6372	8387	6477
35°	3195	3602	3086
40°	2017	2216	2017
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°	1594.8	64.9
10°-20°	656.0	26.7
20°-30°	130.3	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°	2381.0	96.8
0°-40°	2413.6	98.2
0°-60°	2443.3	99.4
0°-90°	2458.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2458.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	33502	33502	33502	33502	33502	
5°	21797	21573	21515	21664	21685	1592
15°	1893	1929	1930	1896	1871	649
25°	223	252	284	251	226	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°	33502.4	33502.4	33502.4	33502.4	33502.4
2.5°	30220.5	30246.0	30255.9	30285.7	30396.3
5°	21797.4	21573.3	21515.1	21664.1	21685.3
7.5°	12911.9	12957.3	13123.2	13160.1	13026.8
10°	7085.7	7143.8	7135.3	7186.4	7244.5
12.5°	3623.7	3578.3	3564.1	3622.3	3541.4
15°	1893.4	1928.8	1930.3	1896.2	1870.7
17.5°	1018.3	1059.4	1127.5	1072.2	987.1
20°	601.3	638.2	696.4	651.0	614.1
22.5°	371.6	401.4	442.5	407.0	377.3
25°	222.7	252.5	283.7	251.0	225.5
27.5°	131.9	157.4	177.3	156.0	130.5
30°	85.1	99.3	112.0	97.9	86.5
32.5°	59.6	65.2	70.9	65.2	59.6
35°	44.0	46.8	49.6	46.8	42.5
37.5°	34.0	36.9	38.3	35.5	32.6
40°	28.4	29.8	31.2	29.8	28.4
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	19.9	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)