

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P743865

Luminaire Tested: LD4D20D010-EU4DR1515309024-4LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743865  
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: LD4D20D010-EU4DR1515309024-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1573.6 lumens  
Efficiency: N/A  
Efficacy: 68.1 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): 23.1  
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



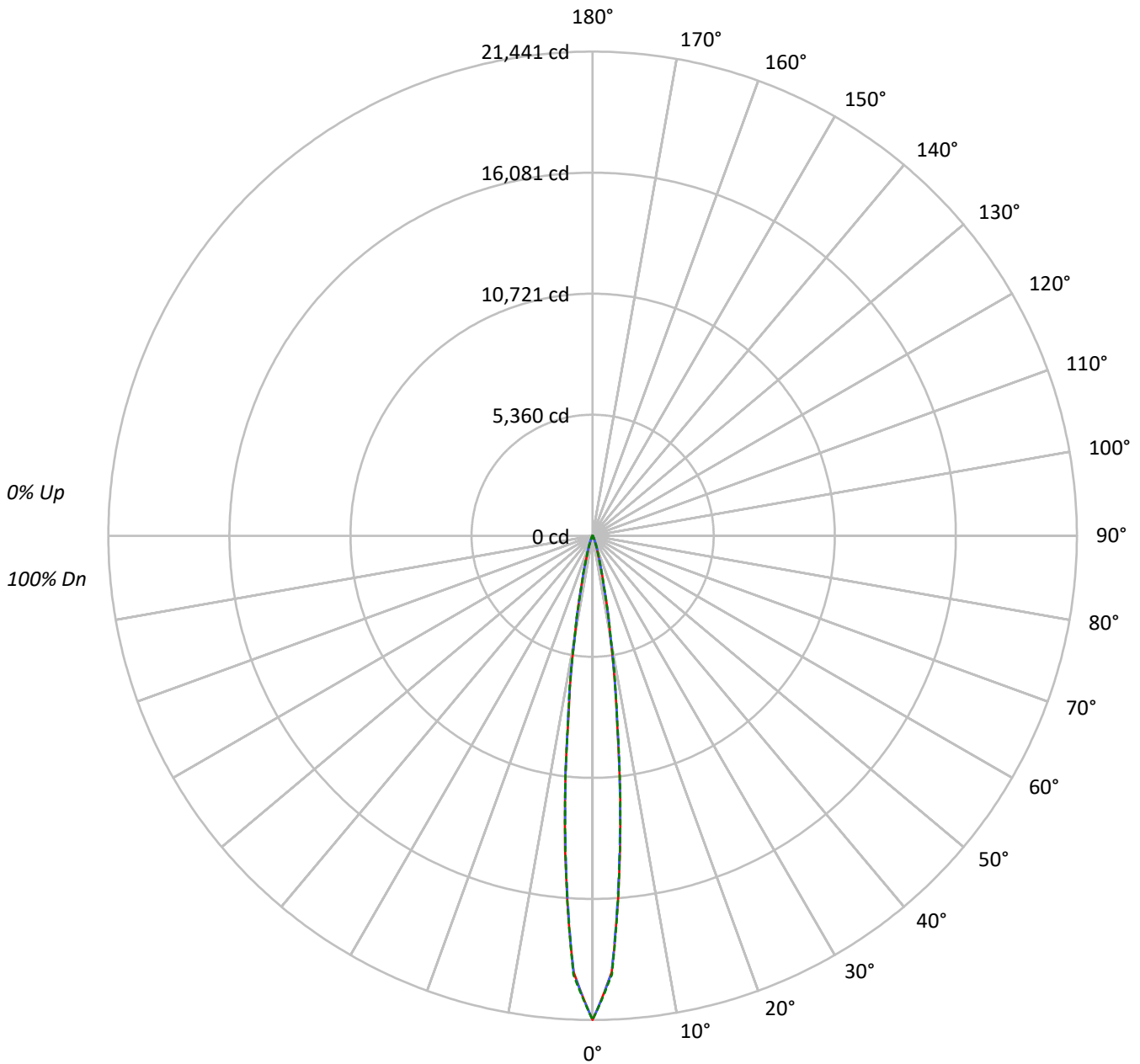
Downlight



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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°	2412518	2412518	2412518
5°	1417713	1399359	1410426
10°	423122	426089	432602
15°	105244	107294	103985
20°	31485	36468	32156
25°	11101	14139	11241
30°	4081	5369	4148
35°	2041	2309	1975
40°	1292	1420	1292
45°	952	1015	952
50°	758	758	758
55°	633	633	633
60°	513	513	513
65°	385	385	385
70°	329	329	329
75°	204	204	272
80°	142	142	142
85°	75	75	75

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1015 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1020.6	64.9
10°-20°	419.8	26.7
20°-30°	83.4	5.3
30°-40°	20.8	1.3
40°-50°	10.9	0.7
50°-60°	8.1	0.5
60°-70°	5.7	0.4
70°-80°	3.2	0.2
80°-90°	1.0	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°	1523.8	96.8
0°-40°	1544.6	98.2
0°-60°	1563.7	99.4
0°-90°	1573.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1573.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21441	21441	21441	21441	21441	
5°	13950	13806	13769	13865	13878	1019
15°	1212	1234	1235	1214	1197	415
25°	142	162	182	161	144	75
35°	28	30	32	30	27	19
45°	14	14	14	14	14	11
55°	9	9	9	9	9	8
65°	5	5	5	5	5	6
75°	3	3	3	3	4	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	21440.8	21440.8	21440.8	21440.8	21440.8
2.5°	19340.5	19356.8	19363.2	19382.3	19453.1
5°	13949.9	13806.5	13769.3	13864.6	13878.2
7.5°	8263.4	8292.4	8398.6	8422.2	8336.9
10°	4534.7	4571.9	4566.5	4599.1	4636.3
12.5°	2319.1	2290.0	2281.0	2318.2	2266.4
15°	1211.7	1234.4	1235.3	1213.5	1197.2
17.5°	651.7	678.0	721.6	686.2	631.7
20°	384.8	408.4	445.7	416.6	393.0
22.5°	237.8	256.9	283.2	260.5	241.4
25°	142.5	161.6	181.5	160.7	144.3
27.5°	84.4	100.8	113.5	99.8	83.5
30°	54.5	63.5	71.7	62.6	55.4
32.5°	38.1	41.8	45.4	41.8	38.1
35°	28.1	30.0	31.8	30.0	27.2
37.5°	21.8	23.6	24.5	22.7	20.9
40°	18.2	19.1	20.0	19.1	18.2
42.5°	15.4	16.3	16.3	16.3	15.4
45°	13.6	13.6	14.5	13.6	13.6
47.5°	11.8	11.8	12.7	11.8	11.8
50°	10.9	10.9	10.9	10.9	10.9
52.5°	10.0	10.0	10.0	10.0	10.0
55°	9.1	9.1	9.1	9.1	9.1
57.5°	8.2	8.2	8.2	8.2	8.2
60°	7.3	7.3	7.3	7.3	7.3
62.5°	6.4	6.4	6.4	6.4	6.4
65°	5.4	5.4	5.4	5.4	5.4
67.5°	5.4	5.4	5.4	5.4	5.4
70°	4.5	4.5	4.5	4.5	4.5
72.5°	3.6	3.6	3.6	3.6	3.6
75°	2.7	2.7	2.7	2.7	3.6
77.5°	2.7	2.7	2.7	2.7	2.7
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)