

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: P743875

Luminaire Tested: LD4D20D010-EU4DR1515309027-4LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743875  
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-EU4DR1515309027-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1685.4 lumens  
Efficiency: N/A  
Efficacy: 73.0 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): 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

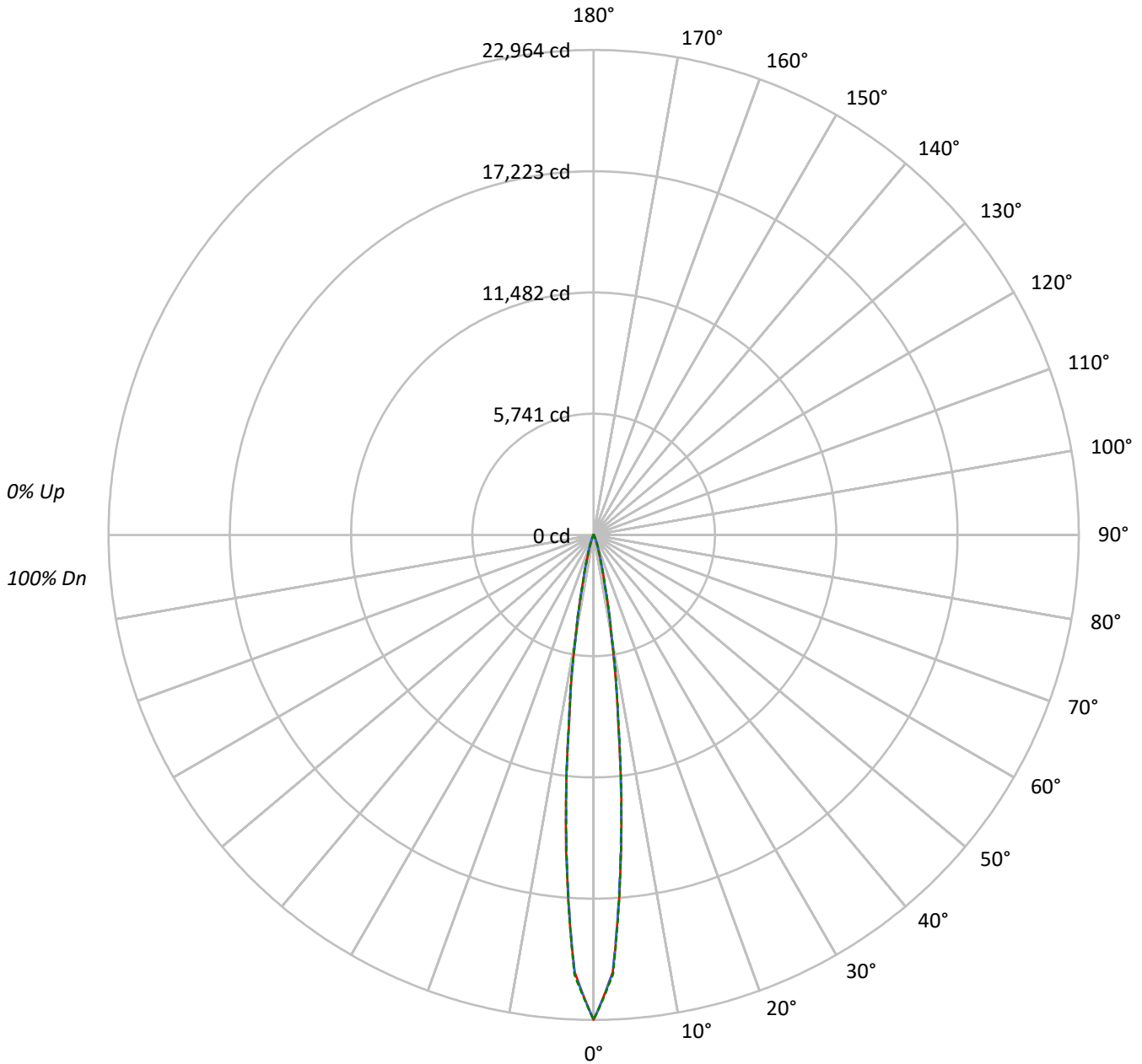


Downlight



TEST NUMBER: P743875  
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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°	2583942	2583942	2583942
5°	1518448	1498782	1510643
10°	453186	456358	463347
15°	112723	114920	111377
20°	33727	39054	34439
25°	11888	15144	12043
30°	4366	5751	4440
35°	2186	2469	2120
40°	1378	1520	1378
45°	1022	1092	1022
50°	814	814	814
55°	675	675	675
60°	548	548	548
65°	414	414	414
70°	358	358	358
75°	219	219	295
80°	150	150	150
85°	83	83	83

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1092 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1093.1	64.9
10°-20°	449.6	26.7
20°-30°	89.3	5.3
30°-40°	22.3	1.3
40°-50°	11.7	0.7
50°-60°	8.7	0.5
60°-70°	6.1	0.4
70°-80°	3.5	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°	1632.1	96.8
0°-40°	1654.4	98.2
0°-60°	1674.8	99.4
0°-90°	1685.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1685.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22964	22964	22964	22964	22964	
5°	14941	14788	14748	14850	14864	1091
15°	1298	1322	1323	1300	1282	445
25°	153	173	194	172	155	80
35°	30	32	34	32	29	20
45°	15	15	16	15	15	11
55°	10	10	10	10	10	9
65°	6	6	6	6	6	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°	22964.3	22964.3	22964.3	22964.3	22964.3
2.5°	20714.7	20732.2	20739.0	20759.5	20835.3
5°	14941.1	14787.5	14747.6	14849.7	14864.3
7.5°	8850.5	8881.6	8995.4	9020.7	8929.3
10°	4856.9	4896.8	4890.9	4925.9	4965.8
12.5°	2483.9	2452.8	2443.0	2482.9	2427.5
15°	1297.8	1322.1	1323.1	1299.8	1282.3
17.5°	698.0	726.2	772.9	735.0	676.6
20°	412.2	437.5	477.3	446.2	420.9
22.5°	254.7	275.1	303.3	279.0	258.6
25°	152.6	173.0	194.4	172.1	154.6
27.5°	90.4	107.9	121.5	106.9	89.4
30°	58.3	68.1	76.8	67.1	59.3
32.5°	40.8	44.7	48.6	44.7	40.8
35°	30.1	32.1	34.0	32.1	29.2
37.5°	23.3	25.3	26.2	24.3	22.4
40°	19.4	20.4	21.4	20.4	19.4
42.5°	16.5	17.5	17.5	17.5	16.5
45°	14.6	14.6	15.6	14.6	14.6
47.5°	12.6	12.6	13.6	12.6	12.6
50°	11.7	11.7	11.7	11.7	11.7
52.5°	10.7	10.7	10.7	10.7	10.7
55°	9.7	9.7	9.7	9.7	9.7
57.5°	8.7	8.7	8.7	8.7	8.7
60°	7.8	7.8	7.8	7.8	7.8
62.5°	6.8	6.8	6.8	6.8	6.8
65°	5.8	5.8	5.8	5.8	5.8
67.5°	5.8	5.8	5.8	5.8	5.8
70°	4.9	4.9	4.9	4.9	4.9
72.5°	3.9	3.9	3.9	3.9	3.9
75°	2.9	2.9	2.9	2.9	3.9
77.5°	2.9	2.9	2.9	2.9	2.9
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9
85°	1.0	1.0	1.0	1.0	1.0
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)