

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: P743914

Luminaire Tested: LD4D20D010-EU4DR1515309040-4LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743914  
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-EU4DR1515309040-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1888.1 lumens  
Efficiency: N/A  
Efficacy: 81.7 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): 23.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

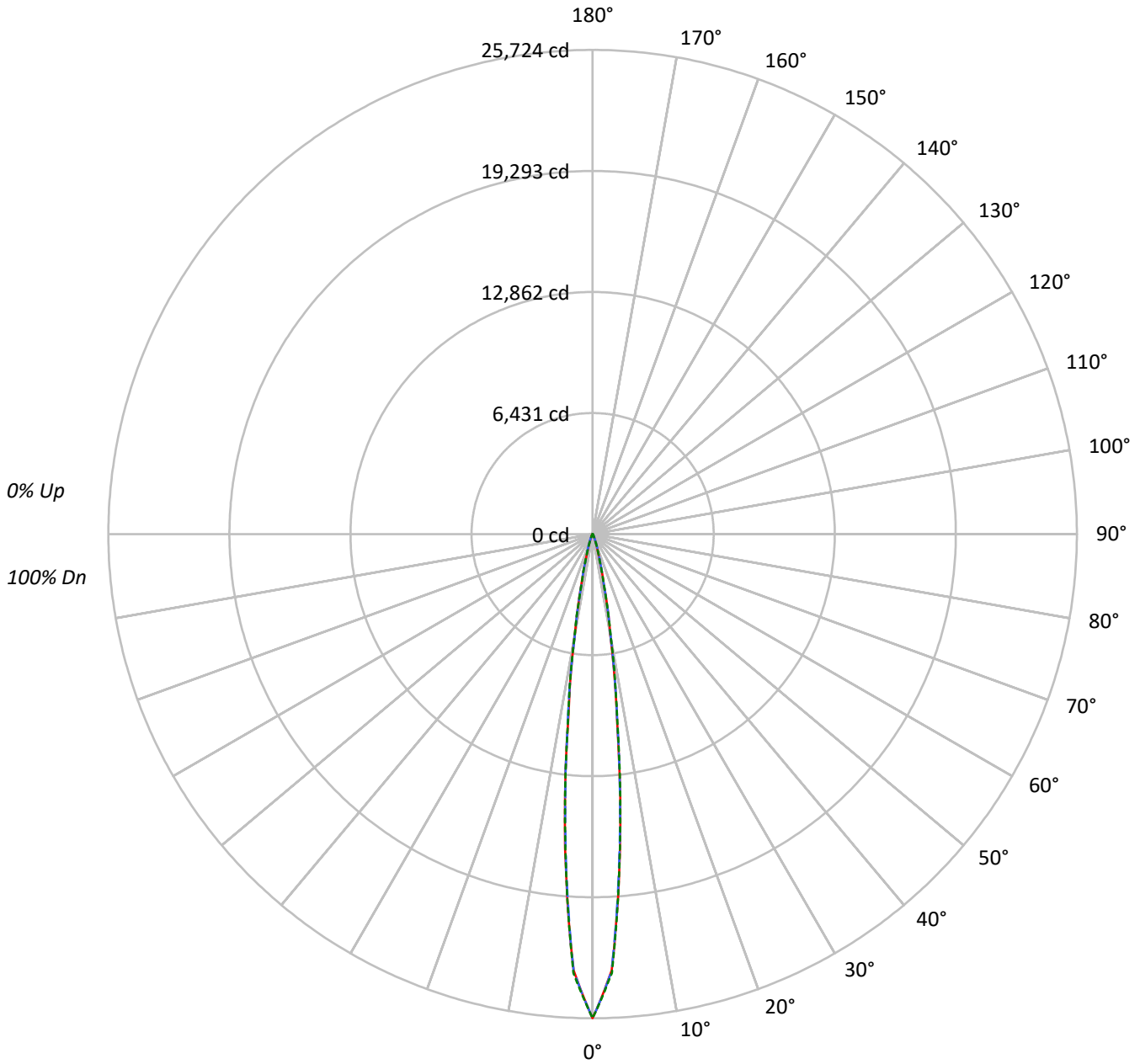


Downlight



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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°	2894497	2894497	2894497
5°	1700943	1678920	1692203
10°	507649	511204	519033
15°	126272	128731	124761
20°	37778	43751	38579
25°	13321	16967	13492
30°	4890	6440	4972
35°	2455	2767	2375
40°	1548	1704	1548
45°	1141	1218	1141
50°	911	911	911
55°	759	759	759
60°	611	611	611
65°	464	464	464
70°	395	395	395
75°	249	249	333
80°	173	173	173
85°	91	91	91

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1218 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1224.5	64.9
10°-20°	503.7	26.7
20°-30°	100.0	5.3
30°-40°	25.0	1.3
40°-50°	13.1	0.7
50°-60°	9.7	0.5
60°-70°	6.8	0.4
70°-80°	3.9	0.2
80°-90°	1.2	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°	1828.3	96.8
0°-40°	1853.2	98.2
0°-60°	1876.1	99.4
0°-90°	1888.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1888.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25724	25724	25724	25724	25724	
5°	16737	16565	16520	16634	16651	1222
15°	1454	1481	1482	1456	1436	498
25°	171	194	218	193	173	90
35°	34	36	38	36	33	23
45°	16	16	17	16	16	13
55°	11	11	11	11	11	10
65°	6	6	6	6	6	7
75°	3	3	3	3	4	4
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°	25724.3	25724.3	25724.3	25724.3	25724.3
2.5°	23204.4	23224.0	23231.6	23254.5	23339.4
5°	16736.8	16564.7	16520.1	16634.4	16650.8
7.5°	9914.2	9949.1	10076.5	10104.8	10002.4
10°	5440.6	5485.3	5478.7	5518.0	5562.6
12.5°	2782.4	2747.5	2736.7	2781.3	2719.2
15°	1453.8	1481.0	1482.1	1456.0	1436.4
17.5°	781.9	813.5	865.8	823.3	757.9
20°	461.7	490.0	534.7	499.8	471.5
22.5°	285.3	308.2	339.8	312.5	289.7
25°	171.0	193.8	217.8	192.8	173.2
27.5°	101.3	120.9	136.1	119.8	100.2
30°	65.3	76.2	86.0	75.1	66.4
32.5°	45.7	50.1	54.4	50.1	45.7
35°	33.8	35.9	38.1	35.9	32.7
37.5°	26.1	28.3	29.4	27.2	25.0
40°	21.8	22.9	24.0	22.9	21.8
42.5°	18.5	19.6	19.6	19.6	18.5
45°	16.3	16.3	17.4	16.3	16.3
47.5°	14.2	14.2	15.2	14.2	14.2
50°	13.1	13.1	13.1	13.1	13.1
52.5°	12.0	12.0	12.0	12.0	12.0
55°	10.9	10.9	10.9	10.9	10.9
57.5°	9.8	9.8	9.8	9.8	9.8
60°	8.7	8.7	8.7	8.7	8.7
62.5°	7.6	7.6	7.6	7.6	7.6
65°	6.5	6.5	6.5	6.5	6.5
67.5°	6.5	6.5	6.5	6.5	6.5
70°	5.4	5.4	5.4	5.4	5.4
72.5°	4.4	4.4	4.4	4.4	4.4
75°	3.3	3.3	3.3	3.3	4.4
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.2	2.2	2.2	2.2	2.2
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1
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)