

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: P743901

Luminaire Tested: LD4D20D010-EU4DR1515309035-4LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743901  
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-EU4DR1515309035-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1837.3 lumens  
Efficiency: N/A  
Efficacy: 79.5 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

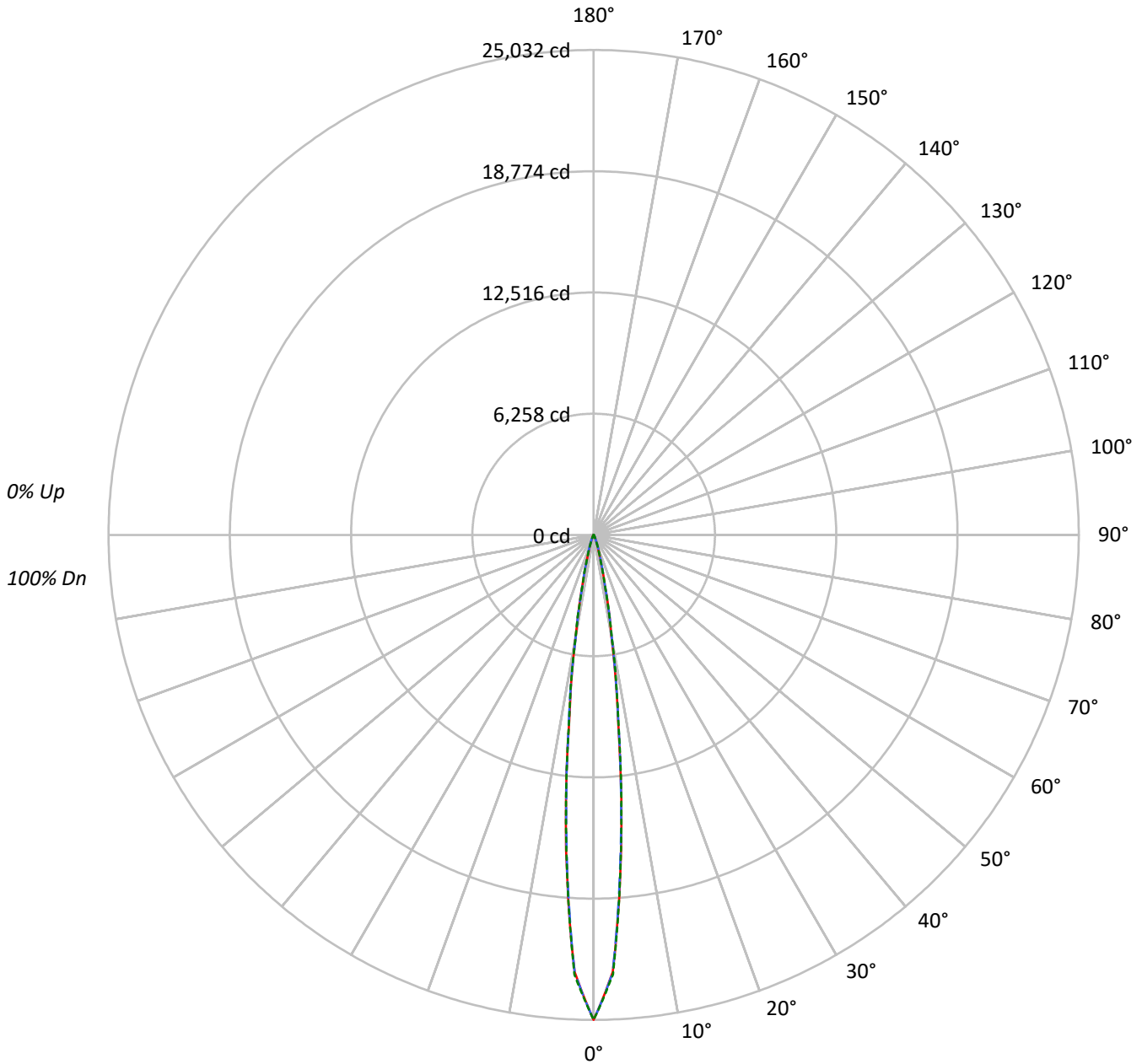


Downlight



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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°	2816622	2816622	2816622
5°	1655179	1633746	1646673
10°	493989	497451	505065
15°	122876	125265	121400
20°	36763	42572	37540
25°	12963	16507	13126
30°	4762	6268	4837
35°	2389	2694	2309
40°	1506	1655	1506
45°	1113	1190	1113
50°	883	883	883
55°	738	738	738
60°	597	597	597
65°	457	457	457
70°	388	388	388
75°	242	242	317
80°	166	166	166
85°	91	91	91

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1190 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1191.6	64.9
10°-20°	490.1	26.7
20°-30°	97.4	5.3
30°-40°	24.3	1.3
40°-50°	12.8	0.7
50°-60°	9.5	0.5
60°-70°	6.7	0.4
70°-80°	3.8	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°	1779.1	96.8
0°-40°	1803.4	98.2
0°-60°	1825.6	99.4
0°-90°	1837.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1837.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25032	25032	25032	25032	25032	
5°	16286	16119	16076	16187	16203	1189
15°	1415	1441	1442	1417	1398	485
25°	166	189	212	188	168	87
35°	33	35	37	35	32	22
45°	16	16	17	16	16	12
55°	11	11	11	11	11	9
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°	25032.2	25032.2	25032.2	25032.2	25032.2
2.5°	22580.0	22599.1	22606.5	22628.8	22711.4
5°	16286.5	16119.1	16075.6	16186.9	16202.8
7.5°	9647.5	9681.4	9805.4	9832.9	9733.3
10°	5294.2	5337.7	5331.3	5369.5	5412.9
12.5°	2707.5	2673.6	2663.0	2706.5	2646.1
15°	1414.7	1441.2	1442.2	1416.8	1397.7
17.5°	760.9	791.6	842.5	801.1	737.5
20°	449.3	476.9	520.3	486.4	458.8
22.5°	277.6	299.9	330.6	304.1	281.9
25°	166.4	188.6	211.9	187.6	168.5
27.5°	98.6	117.6	132.5	116.6	97.5
30°	63.6	74.2	83.7	73.1	64.6
32.5°	44.5	48.7	53.0	48.7	44.5
35°	32.9	35.0	37.1	35.0	31.8
37.5°	25.4	27.6	28.6	26.5	24.4
40°	21.2	22.3	23.3	22.3	21.2
42.5°	18.0	19.1	19.1	19.1	18.0
45°	15.9	15.9	17.0	15.9	15.9
47.5°	13.8	13.8	14.8	13.8	13.8
50°	12.7	12.7	12.7	12.7	12.7
52.5°	11.7	11.7	11.7	11.7	11.7
55°	10.6	10.6	10.6	10.6	10.6
57.5°	9.5	9.5	9.5	9.5	9.5
60°	8.5	8.5	8.5	8.5	8.5
62.5°	7.4	7.4	7.4	7.4	7.4
65°	6.4	6.4	6.4	6.4	6.4
67.5°	6.4	6.4	6.4	6.4	6.4
70°	5.3	5.3	5.3	5.3	5.3
72.5°	4.2	4.2	4.2	4.2	4.2
75°	3.2	3.2	3.2	3.2	4.2
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1
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

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)