

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: P745747

Luminaire Tested: LD4D30D010-EU4DR1515309027-4LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745747  
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: LD4D30D010-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: 2448.0 lumens  
Efficiency: N/A  
Efficacy: 84.4 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): 29  
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



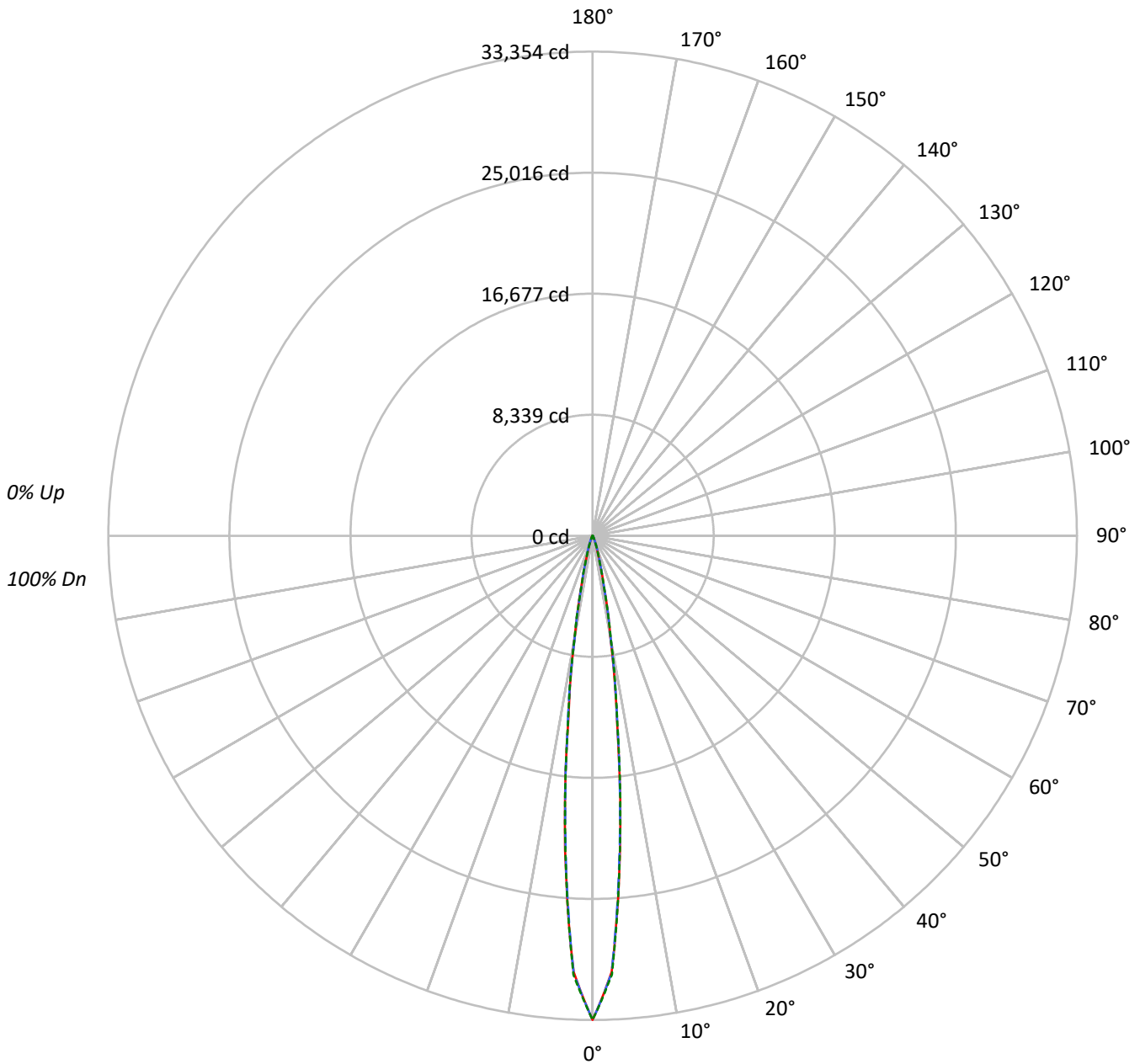
Downlight



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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°	3752934	3752934	3752934
5°	2205398	2176840	2194066
10°	658210	662820	672962
15°	163725	166913	161762
20°	48987	56728	50026
25°	17271	21999	17489
30°	6342	8349	6447
35°	3181	3587	3079
40°	2003	2209	2003
45°	1484	1582	1484
50°	1175	1175	1175
55°	981	981	981
60°	793	793	793
65°	607	607	607
70°	519	519	519
75°	317	317	423
80°	221	221	221
85°	116	116	116

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1582 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1587.7	64.9
10°-20°	653.1	26.7
20°-30°	129.7	5.3
30°-40°	32.4	1.3
40°-50°	17.0	0.7
50°-60°	12.6	0.5
60°-70°	8.9	0.4
70°-80°	5.0	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°	2370.5	96.8
0°-40°	2402.8	98.2
0°-60°	2432.5	99.4
0°-90°	2448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2448.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	33354	33354	33354	33354	33354	
5°	21700	21477	21420	21568	21589	1585
15°	1885	1920	1922	1888	1862	646
25°	222	251	282	250	224	116
35°	44	47	49	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°	33353.5	33353.5	33353.5	33353.5	33353.5
2.5°	30086.2	30111.6	30121.5	30151.2	30261.3
5°	21700.5	21477.4	21419.5	21567.8	21589.0
7.5°	12854.6	12899.7	13064.9	13101.6	12968.9
10°	7054.2	7112.1	7103.6	7154.4	7212.3
12.5°	3607.6	3562.4	3548.3	3606.2	3525.7
15°	1885.0	1920.3	1921.7	1887.8	1862.4
17.5°	1013.8	1054.7	1122.5	1067.4	982.7
20°	598.7	635.4	693.3	648.1	611.4
22.5°	369.9	399.6	440.5	405.2	375.6
25°	221.7	251.3	282.4	249.9	224.5
27.5°	131.3	156.7	176.5	155.3	129.9
30°	84.7	98.8	111.5	97.4	86.1
32.5°	59.3	65.0	70.6	65.0	59.3
35°	43.8	46.6	49.4	46.6	42.4
37.5°	33.9	36.7	38.1	35.3	32.5
40°	28.2	29.7	31.1	29.7	28.2
42.5°	24.0	25.4	25.4	25.4	24.0
45°	21.2	21.2	22.6	21.2	21.2
47.5°	18.4	18.4	19.8	18.4	18.4
50°	16.9	16.9	16.9	16.9	16.9
52.5°	15.5	15.5	15.5	15.5	15.5
55°	14.1	14.1	14.1	14.1	14.1
57.5°	12.7	12.7	12.7	12.7	12.7
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°	5.6	5.6	5.6	5.6	5.6
75°	4.2	4.2	4.2	4.2	5.6
77.5°	4.2	4.2	4.2	4.2	4.2
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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