

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: P745788

Luminaire Tested: LD4D30D010-EU4DR1515309040-4LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745788  
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-EU4DR1515309040-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3081.1 lumens  
Efficiency: N/A  
Efficacy: 106.2 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

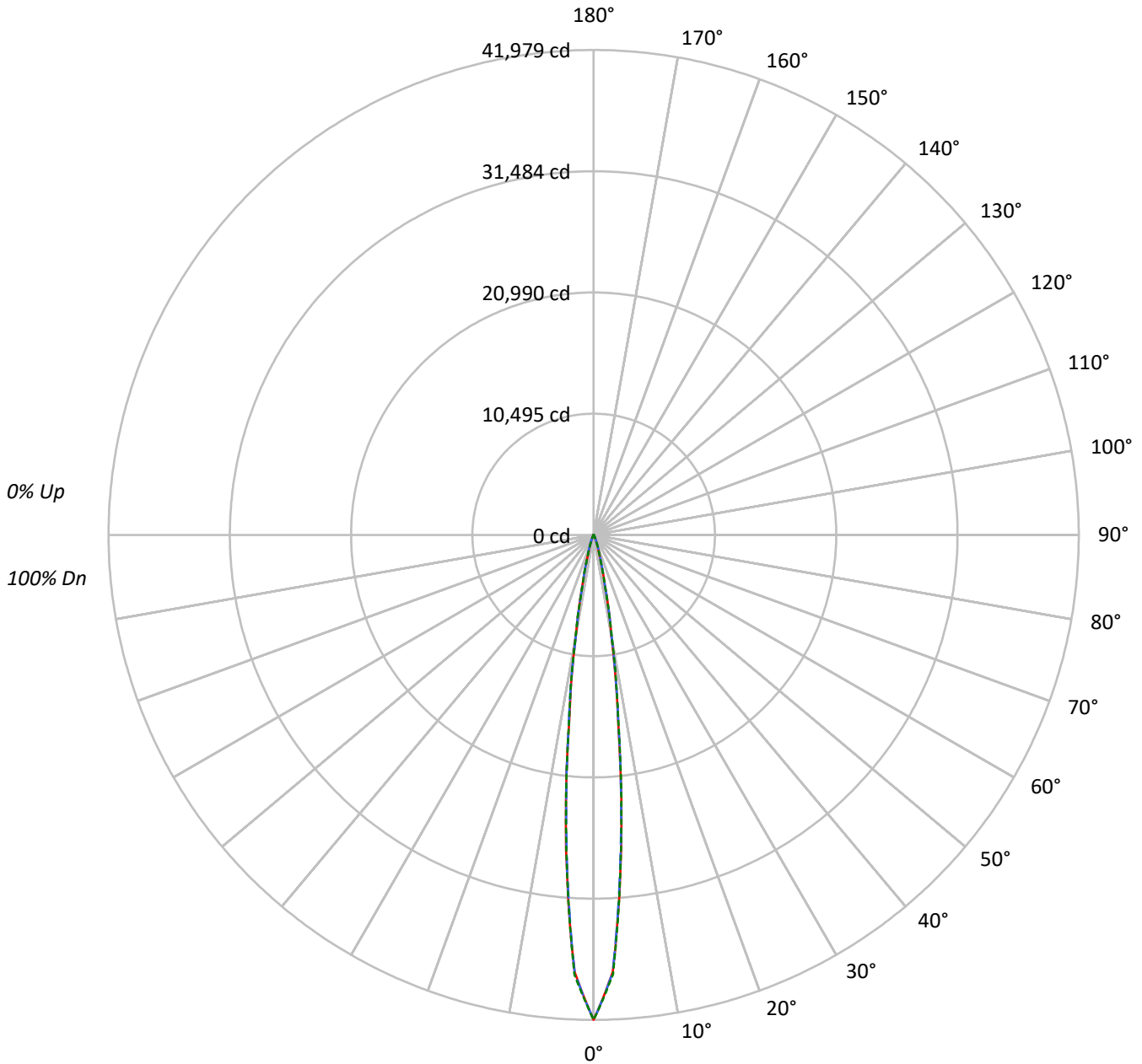


Downlight



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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°	4723497	4723497	4723497
5°	2775750	2739803	2761481
10°	828431	834235	847000
15°	206068	210081	203592
20°	61653	71399	62963
25°	21734	27686	22015
30°	7982	10513	8117
35°	4001	4517	3871
40°	2521	2777	2521
45°	1869	1988	1869
50°	1481	1481	1481
55°	1239	1239	1239
60°	997	997	997
65°	764	764	764
70°	651	651	651
75°	401	401	537
80°	284	284	284
85°	149	149	149

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1988 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1998.3	64.9
10°-20°	822.0	26.7
20°-30°	163.3	5.3
30°-40°	40.7	1.3
40°-50°	21.4	0.7
50°-60°	15.9	0.5
60°-70°	11.2	0.4
70°-80°	6.4	0.2
80°-90°	2.0	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°	2983.5	96.8
0°-40°	3024.2	98.2
0°-60°	3061.5	99.4
0°-90°	3081.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3081.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	41979	41979	41979	41979	41979	
5°	27313	27032	26959	27146	27172	1995
15°	2372	2417	2419	2376	2344	813
25°	279	316	355	315	283	147
35°	55	59	62	59	53	37
45°	27	27	28	27	27	21
55°	18	18	18	18	18	16
65°	11	11	11	11	11	11
75°	5	5	5	5	7	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	41979.2	41979.2	41979.2	41979.2	41979.2
2.5°	37866.9	37898.9	37911.3	37948.7	38087.3
5°	27312.6	27031.8	26958.9	27145.5	27172.2
7.5°	16178.9	16235.8	16443.7	16489.9	16322.9
10°	8878.5	8951.4	8940.7	9004.7	9077.5
12.5°	4540.5	4483.7	4465.9	4538.8	4437.5
15°	2372.5	2416.9	2418.7	2376.0	2344.0
17.5°	1276.0	1327.5	1412.8	1343.5	1236.9
20°	753.5	799.7	872.6	815.7	769.5
22.5°	465.6	502.9	554.5	510.0	472.7
25°	279.0	316.3	355.4	314.6	282.6
27.5°	165.3	197.3	222.1	195.5	163.5
30°	106.6	124.4	140.4	122.6	108.4
32.5°	74.6	81.7	88.9	81.7	74.6
35°	55.1	58.6	62.2	58.6	53.3
37.5°	42.7	46.2	48.0	44.4	40.9
40°	35.5	37.3	39.1	37.3	35.5
42.5°	30.2	32.0	32.0	32.0	30.2
45°	26.7	26.7	28.4	26.7	26.7
47.5°	23.1	23.1	24.9	23.1	23.1
50°	21.3	21.3	21.3	21.3	21.3
52.5°	19.5	19.5	19.5	19.5	19.5
55°	17.8	17.8	17.8	17.8	17.8
57.5°	16.0	16.0	16.0	16.0	16.0
60°	14.2	14.2	14.2	14.2	14.2
62.5°	12.4	12.4	12.4	12.4	12.4
65°	10.7	10.7	10.7	10.7	10.7
67.5°	10.7	10.7	10.7	10.7	10.7
70°	8.9	8.9	8.9	8.9	8.9
72.5°	7.1	7.1	7.1	7.1	7.1
75°	5.3	5.3	5.3	5.3	5.3
77.5°	5.3	5.3	5.3	5.3	5.3
80°	3.6	3.6	3.6	3.6	3.6
82.5°	3.6	3.6	3.6	3.6	3.6
85°	1.8	1.8	1.8	1.8	1.8
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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