

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: P745803

Luminaire Tested: LD4D30D010-EU4DR1515309050-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745803  
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-EU4DR1515309050-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2864.8 lumens  
Efficiency: N/A  
Efficacy: 98.8 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 (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

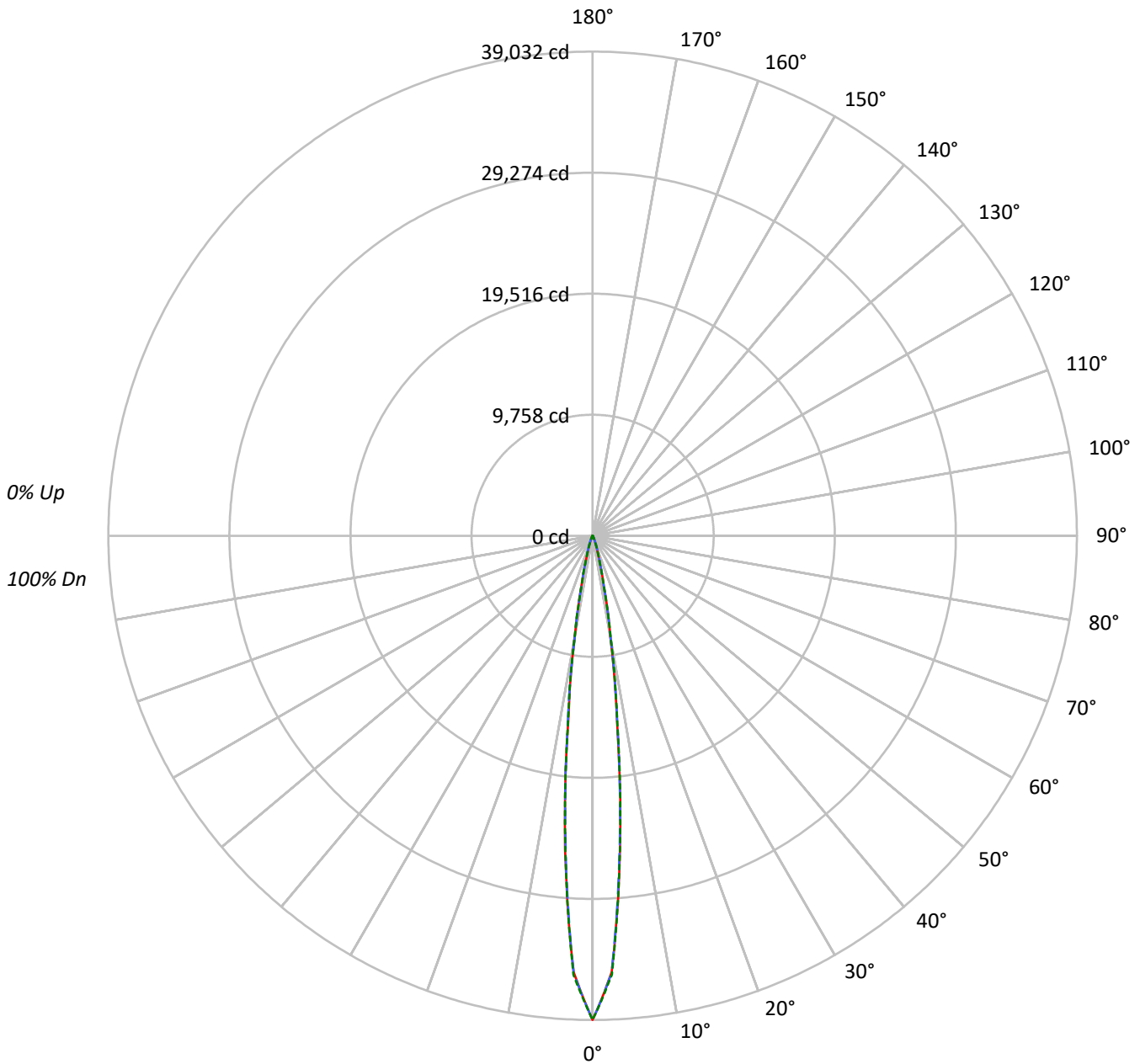


Downlight



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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°	4391935	4391935	4391935
5°	2580907	2547491	2567644
10°	770282	775675	787553
15°	191598	195332	189304
20°	57325	66383	58544
25°	20207	25746	20465
30°	7421	9772	7548
35°	3718	4197	3602
40°	2343	2585	2343
45°	1736	1848	1736
50°	1377	1377	1377
55°	1148	1148	1148
60°	927	927	927
65°	707	707	707
70°	607	607	607
75°	378	378	499
80°	260	260	260
85°	141	141	141

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 1848 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1858.0	64.9
10°-20°	764.3	26.7
20°-30°	151.8	5.3
30°-40°	37.9	1.3
40°-50°	19.9	0.7
50°-60°	14.8	0.5
60°-70°	10.4	0.4
70°-80°	6.0	0.2
80°-90°	1.8	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°	2774.1	96.8
0°-40°	2812.0	98.2
0°-60°	2846.6	99.4
0°-90°	2864.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2864.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	39032	39032	39032	39032	39032	
5°	25395	25134	25067	25240	25265	1855
15°	2206	2247	2249	2209	2180	756
25°	259	294	330	292	263	136
35°	51	54	58	54	50	35
45°	25	25	26	25	25	19
55°	16	16	16	16	16	15
65°	10	10	10	10	10	10
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°	39032.5	39032.5	39032.5	39032.5	39032.5
2.5°	35208.9	35238.7	35250.2	35284.9	35413.8
5°	25395.4	25134.4	25066.6	25240.1	25264.9
7.5°	15043.3	15096.1	15289.5	15332.4	15177.1
10°	8255.3	8323.0	8313.1	8372.6	8440.4
12.5°	4221.8	4169.0	4152.4	4220.2	4126.0
15°	2205.9	2247.2	2248.9	2209.2	2179.5
17.5°	1186.4	1234.3	1313.6	1249.2	1150.1
20°	700.6	743.6	811.3	758.4	715.5
22.5°	432.9	467.6	515.5	474.2	439.5
25°	259.4	294.1	330.5	292.5	262.7
27.5°	153.7	183.4	206.5	181.8	152.0
30°	99.1	115.7	130.5	114.0	100.8
32.5°	69.4	76.0	82.6	76.0	69.4
35°	51.2	54.5	57.8	54.5	49.6
37.5°	39.7	43.0	44.6	41.3	38.0
40°	33.0	34.7	36.4	34.7	33.0
42.5°	28.1	29.7	29.7	29.7	28.1
45°	24.8	24.8	26.4	24.8	24.8
47.5°	21.5	21.5	23.1	21.5	21.5
50°	19.8	19.8	19.8	19.8	19.8
52.5°	18.2	18.2	18.2	18.2	18.2
55°	16.5	16.5	16.5	16.5	16.5
57.5°	14.9	14.9	14.9	14.9	14.9
60°	13.2	13.2	13.2	13.2	13.2
62.5°	11.6	11.6	11.6	11.6	11.6
65°	9.9	9.9	9.9	9.9	9.9
67.5°	9.9	9.9	9.9	9.9	9.9
70°	8.3	8.3	8.3	8.3	8.3
72.5°	6.6	6.6	6.6	6.6	6.6
75°	5.0	5.0	5.0	5.0	6.6
77.5°	5.0	5.0	5.0	5.0	5.0
80°	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	3.3	3.3	3.3	3.3
85°	1.7	1.7	1.7	1.7	1.7
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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