

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: P745844

Luminaire Tested: LD4D30D010-EU4DR2015309030-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D30D010-EU4DR2015309030-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3136.7 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
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



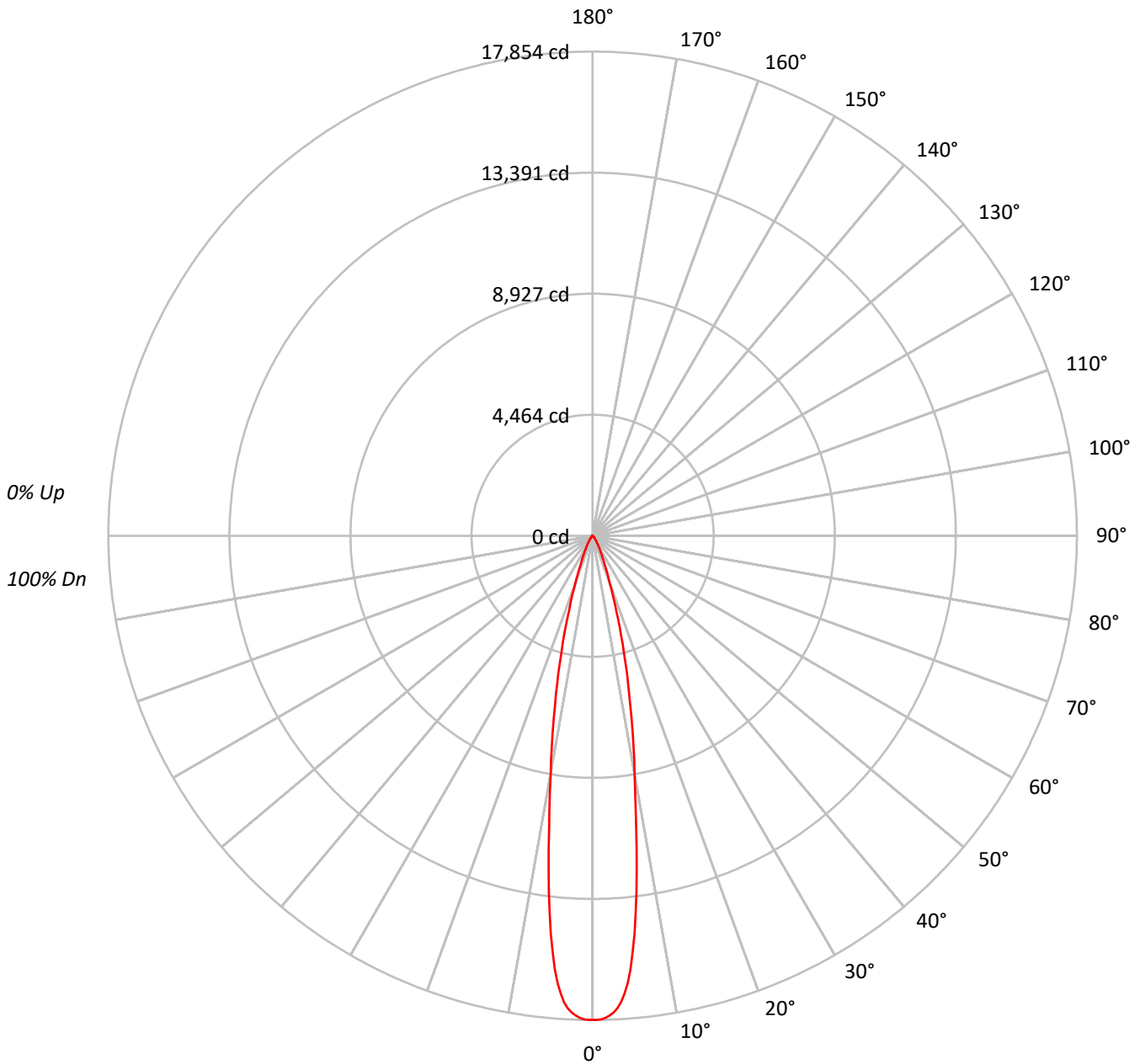
Downlight



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CATALOG NUMBER: LD4D30D010-EU4DR2015309030-4LBS1LI

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									20									20
RC	80									70									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	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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	98	96	95	94	93	92	91	90	89	88	87	86	85															
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81															
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78															
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	87	86	85	84	83	82	81	80	79	78	77	76																
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72															
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70															
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66															
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64															
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62															

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1950687
5°	1759884
10°	987744
15°	502084
20°	212582
25°	98133
30°	51954
35°	27997
40°	14962
45°	8838
50°	5133
55°	2724
60°	1726
65°	1241
70°	511
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8838 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1271.1	40.5
10°-20°	1251.7	39.9
20°-30°	408.9	13.0
30°-40°	139.2	4.4
40°-50°	46.8	1.5
50°-60°	14.1	0.4
60°-70°	4.7	0.2
70°-80°	0.2	0.0
80°-90°	0.0	0.0
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°	2931.7	93.5
0°-40°	3070.9	97.9
0°-60°	3131.8	99.8
0°-90°	3136.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3136.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	17854	
5°	16046	###
15°	4439	1252
25°	814	409
35°	210	139
45°	57	47
55°	14	14
65°	5	5
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	17853.5
0.5°	17853.5
1°	17831.3
1.5°	17786.8
2°	17705.7
2.5°	17597.6
3°	17444.9
3.5°	17231.9
4°	16915.5
4.5°	16530.8
5°	16045.9
5.5°	15408.4
6°	14755.0
6.5°	14006.2
7°	13273.3
7.5°	12414.8
8°	11648.5
8.5°	10877.5
9°	10165.2
9.5°	9511.8
10°	8902.9
12.5°	6392.6
15°	4438.7
17.5°	2899.8
20°	1828.3
22.5°	1184.4
25°	814.0
27.5°	572.3
30°	411.8
32.5°	295.7
35°	209.9
37.5°	146.3
40°	104.9
42.5°	76.3
45°	57.2
47.5°	44.5
50°	30.2
52.5°	19.1
55°	14.3
57.5°	11.1
60°	7.9
62.5°	6.4
65°	4.8



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**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9



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— 0°-180°

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67.5°		3.2
70°		1.6

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(END OF REPORT)