

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: P745870

Luminaire Tested: LD4D30D010-EU4DR2015309040-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745870  
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-EU4DR2015309040-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3402.9 lumens  
Efficiency: N/A  
Efficacy: 117.3 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

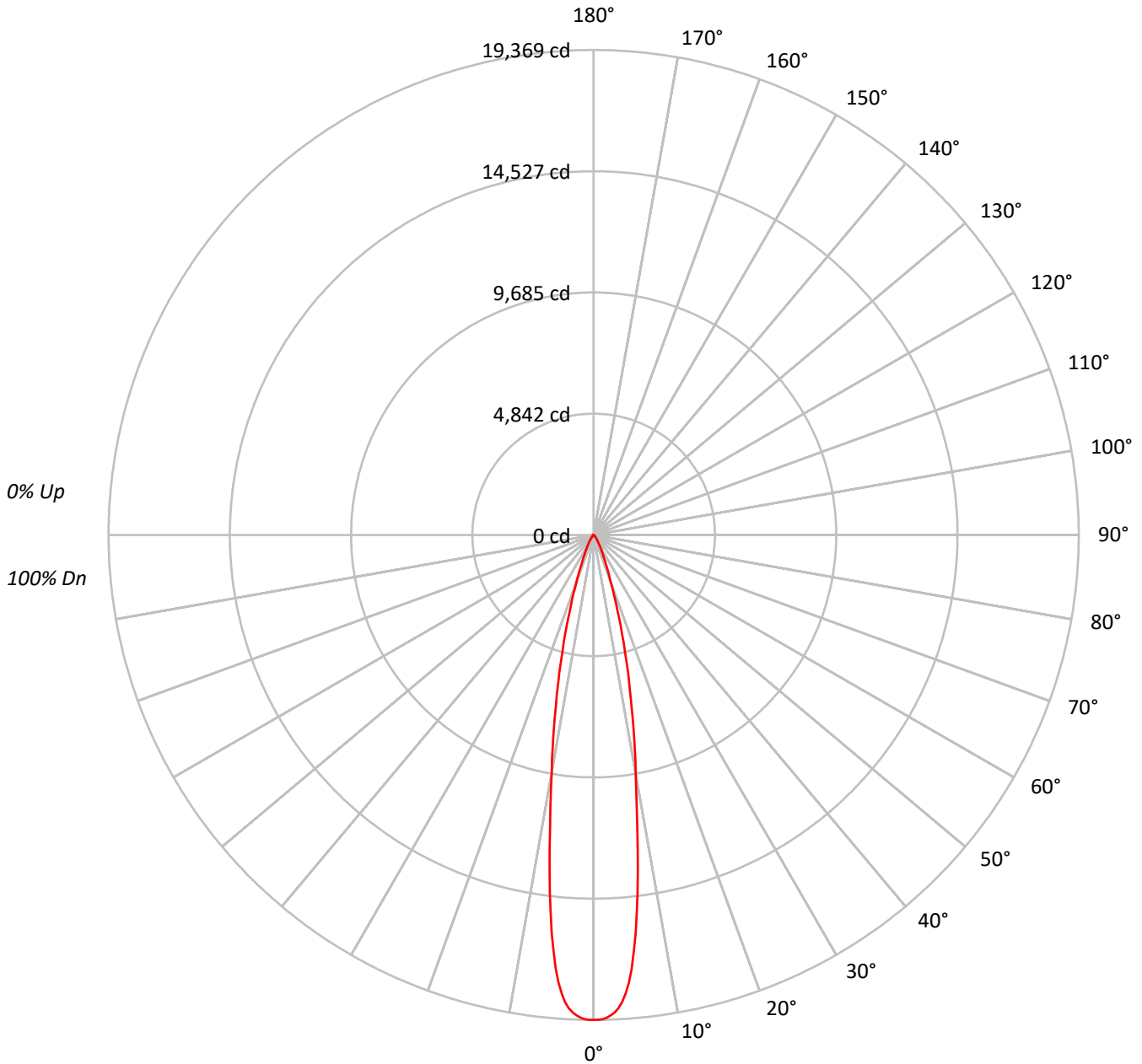


Downlight



TEST NUMBER: P745870  
CATALOG NUMBER: LD4D30D010-EU4DR2015309040-4LBS1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P745870

CATALOG NUMBER: LD4D30D010-EU4DR2015309040-4LBS1LI

**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	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	97	98	98	97															
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	98	96	95															
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	98	93	92															
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	93	91	89															
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	91	88	86															
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	88	86	84															
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	86	84	82															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	84	82	80															
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	82	80	78															
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	81	78	76															

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

	0°
0°	2116239
5°	1909244
10°	1071575
15°	544694
20°	230616
25°	106463
30°	56357
35°	30371
40°	16231
45°	9596
50°	5575
55°	2953
60°	1879
65°	1344
70°	543
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9596 cd/sqm



TEST NUMBER: P745870

CATALOG NUMBER: LD4D30D010-EU4DR2015309040-4LBS1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1379.0	40.5
10°-20°	1357.9	39.9
20°-30°	443.6	13.0
30°-40°	151.0	4.4
40°-50°	50.8	1.5
50°-60°	15.3	0.4
60°-70°	5.1	0.1
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°	3180.5	93.5
0°-40°	3331.6	97.9
0°-60°	3397.6	99.8
0°-90°	3402.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3402.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	19369	
5°	17408	###
15°	4815	1358
25°	883	444
35°	228	151
45°	62	51
55°	16	15
65°	5	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P745870

CATALOG NUMBER: LD4D30D010-EU4DR2015309040-4LBS1LI

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	19368.7
0.5°	19368.7
1°	19344.5
1.5°	19296.2
2°	19208.3
2.5°	19091.0
3°	18925.4
3.5°	18694.3
4°	18351.1
4.5°	17933.7
5°	17407.7
5.5°	16716.0
6°	16007.2
6.5°	15194.8
7°	14399.7
7.5°	13468.4
8°	12637.1
8.5°	11800.6
9°	11027.9
9.5°	10319.0
10°	9658.5
12.5°	6935.1
15°	4815.4
17.5°	3145.9
20°	1983.4
22.5°	1284.9
25°	883.1
27.5°	620.9
30°	446.7
32.5°	320.8
35°	227.7
37.5°	158.7
40°	113.8
42.5°	82.8
45°	62.1
47.5°	48.3
50°	32.8
52.5°	20.7
55°	15.5
57.5°	12.1
60°	8.6
62.5°	6.9
65°	5.2



TEST NUMBER: P745870  
CATALOG NUMBER: LD4D30D010-EU4DR2015309040-4LBS1LI

**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



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

Scaled Data Report





— 0°-180°

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

Scaled Data Report



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

Scaled Data Report





67.5°	3.4
70°	1.7

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

Scaled Data Report



(END OF REPORT)