

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



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: P749120

Luminaire Tested: LD4D50D010-EU4DR3040509030-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749120  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D50D010-EU4DR3040509030-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5223.3 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

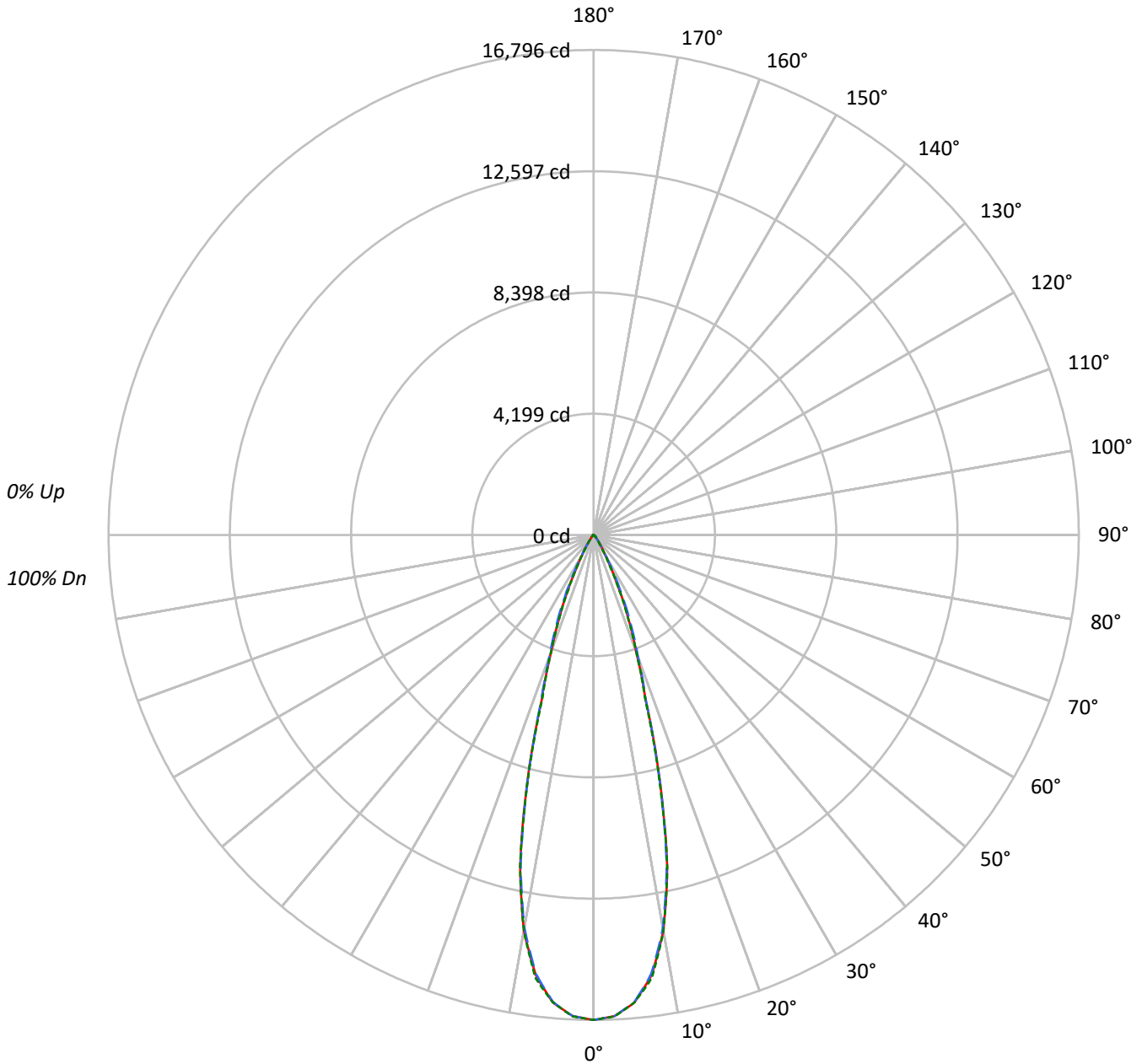
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

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

	0°	45°	90°
0°	1285600	1285600	1285600
5°	1248689	1247237	1248750
10°	1081556	1073931	1081299
15°	705664	701868	698342
20°	350895	364058	350423
25°	176759	199317	173135
30°	70770	77107	61657
35°	32826	31434	26351
40°	14169	15737	13349
45°	10002	12405	10089
50°	3441	9038	3632
55°	1975	3737	2095
60°	1393	1638	1393
65°	887	887	887
70°	559	358	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12405 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1476.9	28.3
10°-20°	2378.6	45.5
20°-30°	1027.9	19.7
30°-40°	234.3	4.5
40°-50°	80.4	1.5
50°-60°	19.7	0.4
60°-70°	5.1	0.1
70°-80°	0.5	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°	4883.4	93.5
0°-40°	5117.6	98.0
0°-60°	5217.7	99.9
0°-90°	5223.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5223.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16796	16796	16796	16796	16796	
5°	16251	16236	16232	16266	16252	1478
15°	8905	8798	8857	8828	8813	2384
25°	2093	2172	2360	2117	2050	1002
35°	351	359	336	334	282	238
45°	92	115	115	115	93	66
55°	15	16	28	16	16	14
65°	5	5	5	5	5	5
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16795.7	16795.7	16795.7	16795.7	16795.7
2.5°	16684.3	16672.8	16679.4	16687.6	16690.9
5°	16251.4	16235.8	16232.5	16266.3	16252.2
7.5°	15378.2	15355.9	15322.1	15398.8	15470.5
10°	13915.3	13890.6	13817.2	13853.5	13912.0
12.5°	11755.6	11675.7	11674.0	11789.5	11773.8
15°	8905.0	8797.8	8857.1	8828.3	8812.6
17.5°	5988.3	5947.1	6026.3	6002.3	5899.3
20°	4307.8	4318.5	4469.4	4393.5	4302.0
22.5°	3143.4	3182.2	3361.1	3165.7	3093.9
25°	2092.9	2172.0	2360.0	2116.8	2050.0
27.5°	1287.2	1323.5	1514.0	1270.7	1234.4
30°	800.7	782.6	872.4	748.7	697.6
32.5°	525.3	502.2	531.0	476.6	435.4
35°	351.3	358.7	336.4	334.0	282.0
37.5°	219.3	252.3	222.6	237.5	181.4
40°	141.8	183.1	157.5	174.0	133.6
42.5°	116.3	141.0	129.5	137.7	118.7
45°	92.4	114.6	114.6	114.6	93.2
47.5°	51.1	76.7	98.1	78.3	54.4
50°	28.9	38.8	75.9	40.4	30.5
52.5°	19.8	22.3	52.0	23.1	20.6
55°	14.8	15.7	28.0	16.5	15.7
57.5°	11.5	12.4	14.8	12.4	11.5
60°	9.1	9.1	10.7	9.9	9.1
62.5°	6.6	6.6	7.4	6.6	6.6
65°	4.9	4.9	4.9	4.9	4.9
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.6	1.6	1.6	2.5
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - 90°-270°

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