

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: P749155

Luminaire Tested: LD4D50D010-EU4DR3040509050-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749155  
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-EU4DR3040509050-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5286.4 lumens  
Efficiency: N/A  
Efficacy: 112.5 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

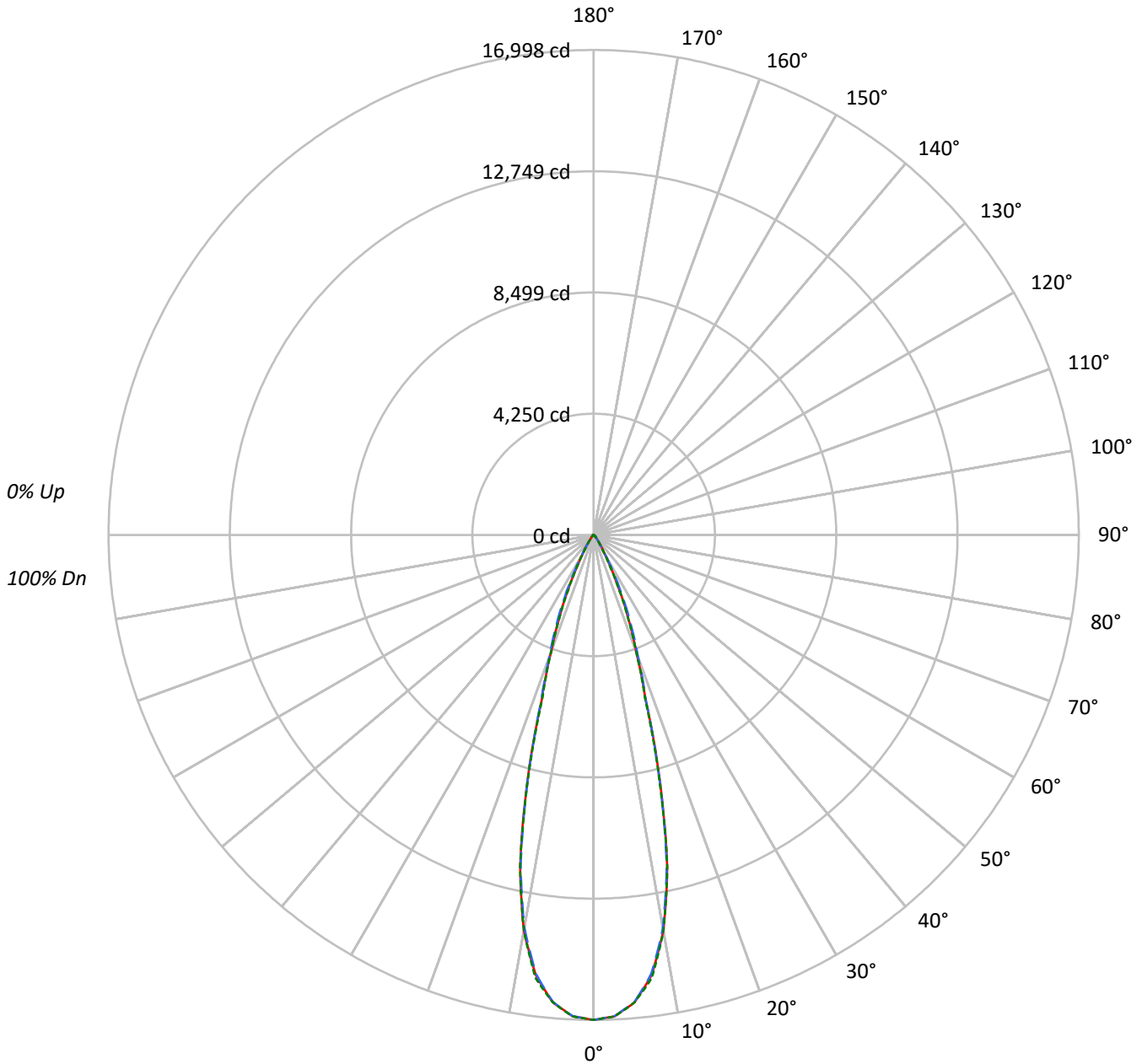
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

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

	0°	45°	90°
0°	1301108	1301108	1301108
5°	1263756	1262281	1263826
10°	1094605	1086887	1094349
15°	714175	710339	706773
20°	355123	368449	354650
25°	178887	201724	175221
30°	71627	78044	62400
35°	33219	31817	26668
40°	14339	15927	13509
45°	10121	12557	10208
50°	3477	9145	3680
55°	2002	3790	2122
60°	1408	1653	1408
65°	906	906	906
70°	559	380	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: 12557 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1494.7	28.3
10°-20°	2407.3	45.5
20°-30°	1040.3	19.7
30°-40°	237.1	4.5
40°-50°	81.4	1.5
50°-60°	19.9	0.4
60°-70°	5.2	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°	4942.3	93.5
0°-40°	5179.4	98.0
0°-60°	5280.7	99.9
0°-90°	5286.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5286.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16998	16998	16998	16998	16998	
5°	16448	16432	16428	16462	16448	1496
15°	9012	8904	8964	8935	8919	2413
25°	2118	2198	2388	2142	2075	1014
35°	356	363	340	338	285	241
45°	94	116	116	116	94	66
55°	15	16	28	17	16	15
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°	16998.3	16998.3	16998.3	16998.3	16998.3
2.5°	16885.7	16874.0	16880.7	16889.0	16892.3
5°	16447.5	16431.7	16428.3	16462.5	16448.4
7.5°	15563.7	15541.2	15507.0	15584.6	15657.2
10°	14083.2	14058.2	13983.9	14020.6	14079.9
12.5°	11897.5	11816.5	11814.9	11931.7	11915.9
15°	9012.4	8903.9	8964.0	8934.8	8919.0
17.5°	6060.6	6018.9	6099.0	6074.8	5970.4
20°	4359.7	4370.6	4523.3	4446.5	4353.9
22.5°	3181.3	3220.6	3401.7	3203.9	3131.3
25°	2118.1	2198.2	2388.5	2142.3	2074.7
27.5°	1302.7	1339.5	1532.3	1286.1	1249.3
30°	810.4	792.0	883.0	757.8	706.0
32.5°	531.6	508.2	537.5	482.4	440.6
35°	355.5	363.0	340.5	338.0	285.4
37.5°	222.0	255.4	225.3	240.4	183.6
40°	143.5	185.3	159.4	176.1	135.2
42.5°	117.7	142.7	131.0	139.4	120.2
45°	93.5	116.0	116.0	116.0	94.3
47.5°	51.7	77.6	99.3	79.3	55.1
50°	29.2	39.2	76.8	40.9	30.9
52.5°	20.0	22.5	52.6	23.4	20.9
55°	15.0	15.9	28.4	16.7	15.9
57.5°	11.7	12.5	15.0	12.5	11.7
60°	9.2	9.2	10.8	10.0	9.2
62.5°	6.7	6.7	7.5	6.7	6.7
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	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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(END OF REPORT)