

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: P748362

Luminaire Tested: LD4D45BD010-EU4DR3040509040-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748362  
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: LD4D45BD010-EU4DR3040509040-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4469.4 lumens  
Efficiency: N/A  
Efficacy: 115.5 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

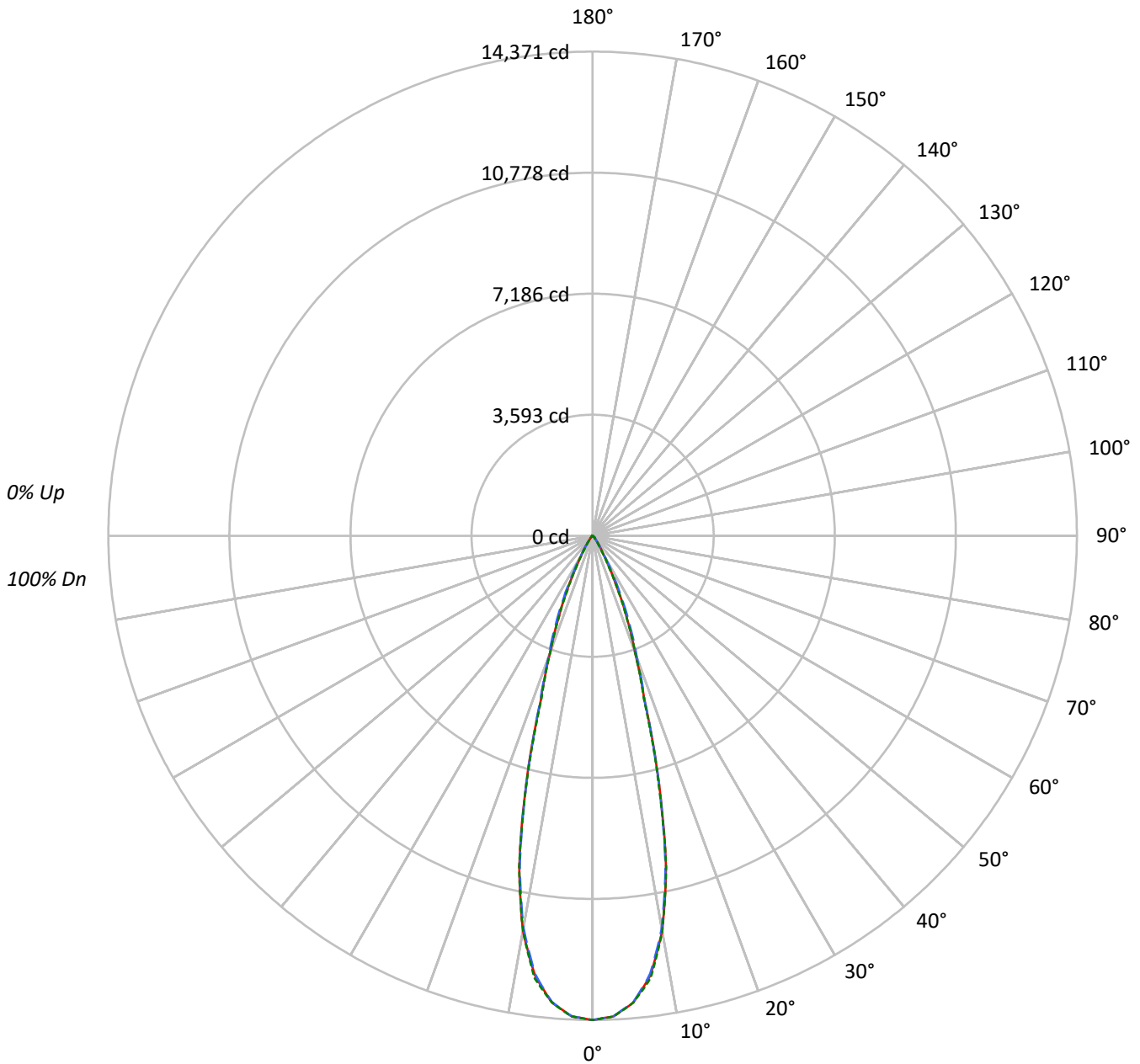
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1100028	1100028	1100028
5°	1068448	1067203	1068501
10°	925439	918910	925221
15°	603804	600563	597544
20°	300246	311511	299839
25°	151244	170551	148145
30°	60552	65979	52757
35°	28089	26902	22548
40°	12130	13469	11421
45°	8552	10619	8627
50°	2941	7728	3108
55°	1695	3203	1788
60°	1194	1408	1194
65°	761	761	761
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10619 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1263.7	28.3
10°-20°	2035.3	45.5
20°-30°	879.5	19.7
30°-40°	200.5	4.5
40°-50°	68.8	1.5
50°-60°	16.8	0.4
60°-70°	4.3	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°	4178.5	93.5
0°-40°	4379.0	98.0
0°-60°	4464.6	99.9
0°-90°	4469.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4469.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14371	14371	14371	14371	14371	
5°	13906	13892	13889	13918	13906	1265
15°	7620	7528	7579	7554	7541	2040
25°	1791	1858	2019	1811	1754	857
35°	301	307	288	286	241	204
45°	79	98	98	98	80	56
55°	13	13	24	14	13	12
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14371.3	14371.3	14371.3	14371.3	14371.3
2.5°	14276.1	14266.2	14271.8	14278.9	14281.7
5°	13905.6	13892.2	13889.4	13918.3	13906.3
7.5°	13158.4	13139.4	13110.4	13176.1	13237.4
10°	11906.7	11885.5	11822.7	11853.8	11903.9
12.5°	10058.8	9990.4	9988.9	10087.7	10074.3
15°	7619.6	7527.9	7578.7	7554.0	7540.6
17.5°	5123.9	5088.7	5156.4	5135.9	5047.7
20°	3686.0	3695.1	3824.3	3759.3	3681.0
22.5°	2689.7	2722.8	2876.0	2708.7	2647.3
25°	1790.8	1858.5	2019.4	1811.2	1754.1
27.5°	1101.4	1132.5	1295.5	1087.3	1056.3
30°	685.1	669.6	746.5	640.7	596.9
32.5°	449.5	429.7	454.4	407.8	372.5
35°	300.6	306.9	287.9	285.8	241.3
37.5°	187.7	215.9	190.5	203.2	155.2
40°	121.4	156.6	134.8	148.9	114.3
42.5°	99.5	120.7	110.8	117.8	101.6
45°	79.0	98.1	98.1	98.1	79.7
47.5°	43.7	65.6	84.0	67.0	46.6
50°	24.7	33.2	64.9	34.6	26.1
52.5°	16.9	19.1	44.5	19.8	17.6
55°	12.7	13.4	24.0	14.1	13.4
57.5°	9.9	10.6	12.7	10.6	9.9
60°	7.8	7.8	9.2	8.5	7.8
62.5°	5.6	5.6	6.4	5.6	5.6
65°	4.2	4.2	4.2	4.2	4.2
67.5°	2.1	2.8	2.8	2.8	2.8
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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)