

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: P746750

Luminaire Tested: LD4D35BD010-EU4DR3020359024-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746750  
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: LD4D35BD010-EU4DR3020359024-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2807.7 lumens  
Efficiency: N/A  
Efficacy: 91.2 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

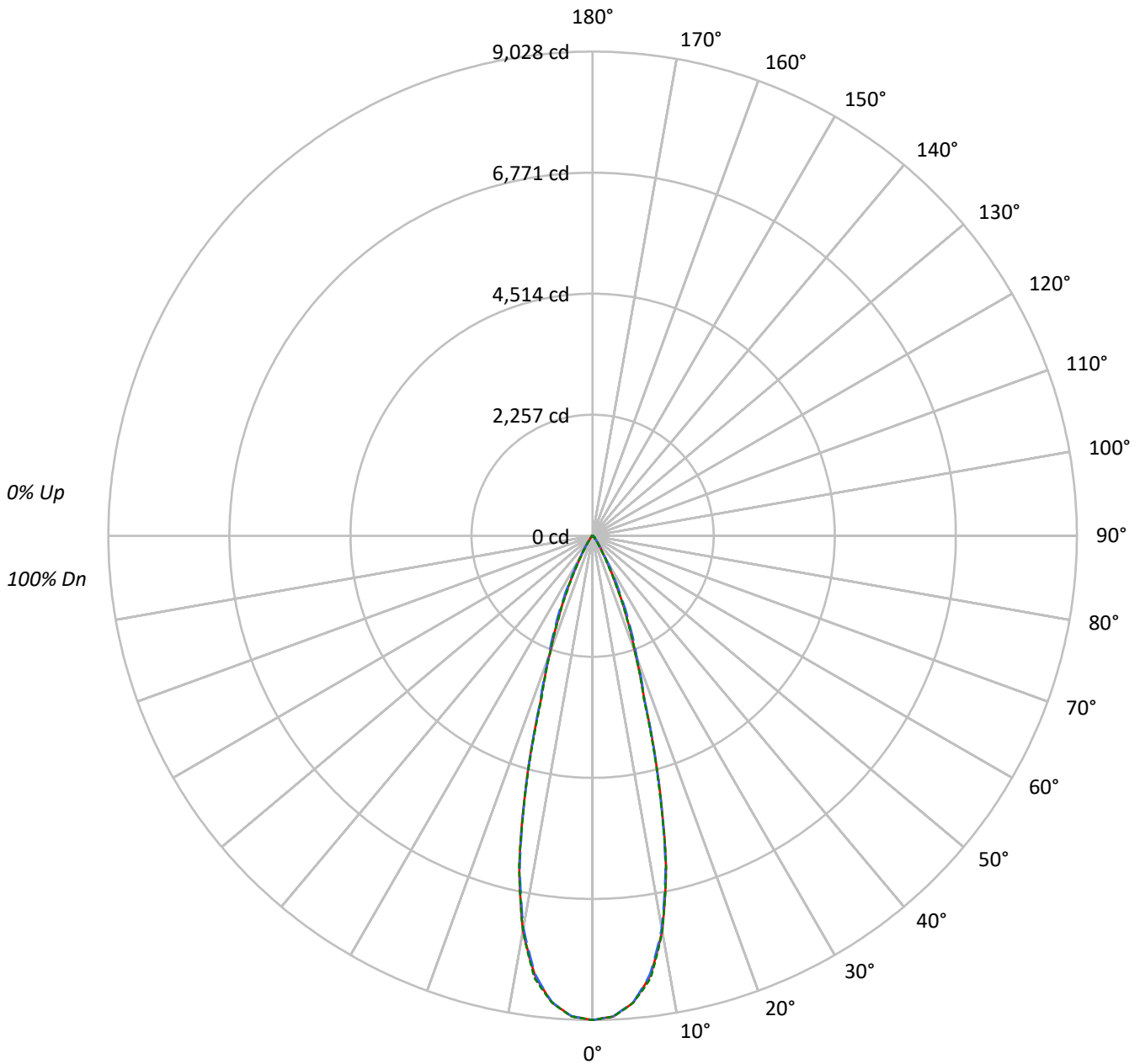
Input Watts (W): 30.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	691057	691057	691057
5°	671214	670431	671253
10°	581377	577273	581237
15°	379315	377279	375385
20°	188619	195698	188366
25°	95013	107141	93062
30°	38041	41452	33144
35°	17642	16894	14166
40°	7614	8463	7174
45°	5369	6668	5423
50°	1846	4858	1953
55°	1068	2015	1121
60°	750	888	750
65°	489	489	489
70°	291	201	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 6668 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	793.9	28.3
10°-20°	1278.6	45.5
20°-30°	552.5	19.7
30°-40°	125.9	4.5
40°-50°	43.2	1.5
50°-60°	10.6	0.4
60°-70°	2.7	0.1
70°-80°	0.3	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°	2625.0	93.5
0°-40°	2750.9	98.0
0°-60°	2804.7	99.9
0°-90°	2807.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2807.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9028	9028	9028	9028	9028	
5°	8736	8727	8726	8744	8736	795
15°	4787	4729	4761	4746	4737	1282
25°	1125	1168	1269	1138	1102	538
35°	189	193	181	180	152	128
45°	50	62	62	62	50	35
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	9028.3	9028.3	9028.3	9028.3	9028.3
2.5°	8968.4	8962.2	8965.8	8970.2	8972.0
5°	8735.7	8727.3	8725.5	8743.7	8736.2
7.5°	8266.3	8254.3	8236.2	8277.4	8316.0
10°	7480.0	7466.7	7427.2	7446.7	7478.2
12.5°	6319.1	6276.1	6275.2	6337.3	6328.8
15°	4786.7	4729.1	4761.0	4745.5	4737.1
17.5°	3218.9	3196.8	3239.3	3226.5	3171.1
20°	2315.6	2321.3	2402.5	2361.7	2312.5
22.5°	1689.7	1710.5	1806.7	1701.7	1663.1
25°	1125.0	1167.5	1268.6	1137.8	1101.9
27.5°	691.9	711.4	813.8	683.1	663.6
30°	430.4	420.7	469.0	402.5	375.0
32.5°	282.4	269.9	285.5	256.2	234.0
35°	188.8	192.8	180.8	179.5	151.6
37.5°	117.9	135.6	119.7	127.7	97.5
40°	76.2	98.4	84.7	93.5	71.8
42.5°	62.5	75.8	69.6	74.0	63.8
45°	49.6	61.6	61.6	61.6	50.1
47.5°	27.5	41.2	52.7	42.1	29.3
50°	15.5	20.8	40.8	21.7	16.4
52.5°	10.6	12.0	27.9	12.4	11.1
55°	8.0	8.4	15.1	8.9	8.4
57.5°	6.2	6.6	8.0	6.6	6.2
60°	4.9	4.9	5.8	5.3	4.9
62.5°	3.5	3.5	4.0	3.5	3.5
65°	2.7	2.7	2.7	2.7	2.7
67.5°	1.3	1.8	1.8	1.8	1.8
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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



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Scaled Data Report







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

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(END OF REPORT)