

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: P747113

Luminaire Tested: LD4D35BD010-EU4DR5020359040-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747113  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D35BD010-EU4DR5020359040-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 50° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3506.6 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

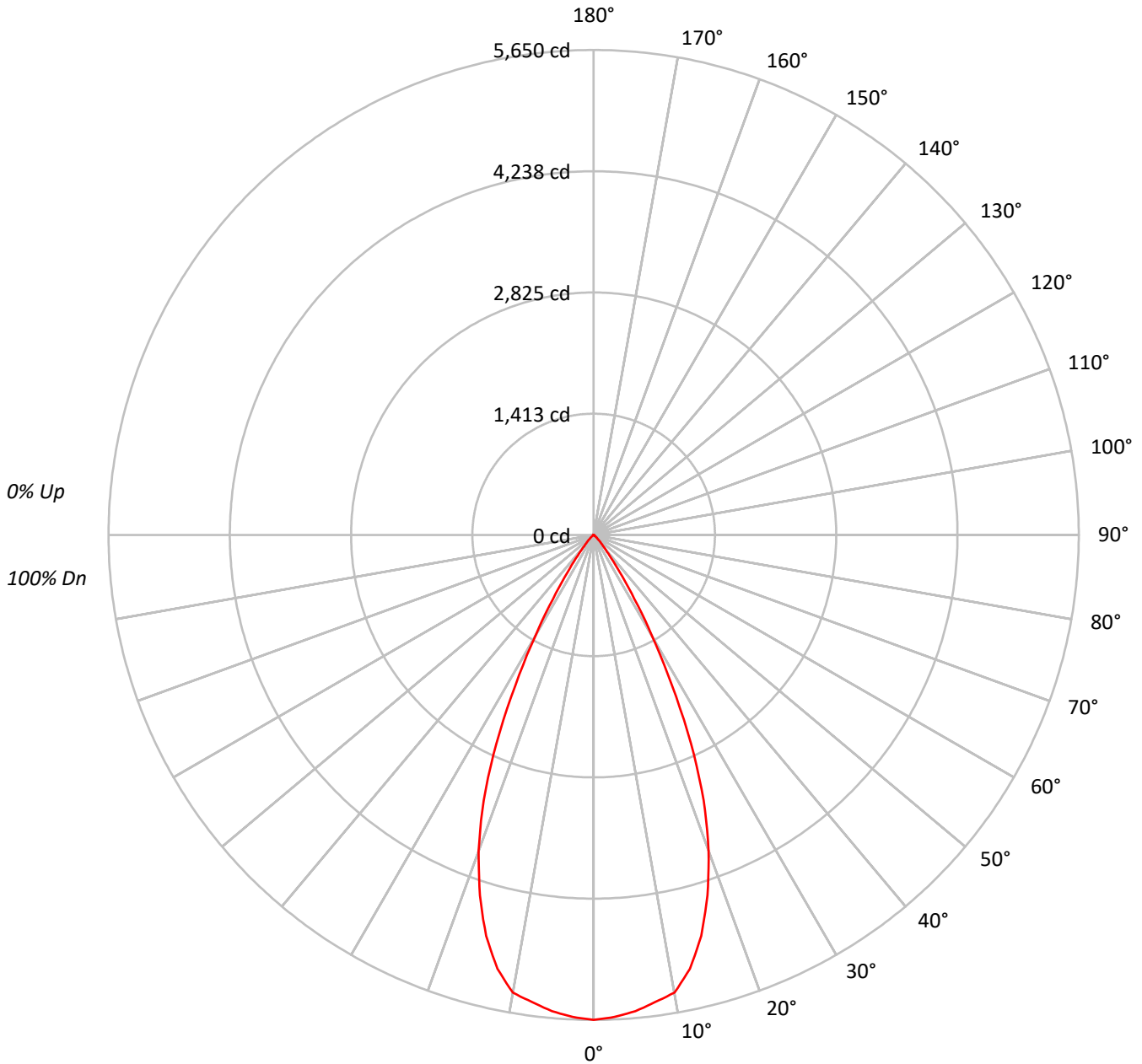
Input Watts (W): 30.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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			100																
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95			95																
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90			90																
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85			85																
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80			80																
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76			76																
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72			72																
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69			69																
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65			65																
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62			62																
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59			59																

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

	0°
0°	617323
5°	610852
10°	600785
15°	547070
20°	455220
25°	323138
30°	171040
35°	69706
40°	25887
45°	11852
50°	4861
55°	2534
60°	1246
65°	362
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11852 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.4	15.0
10°-20°	1330.4	37.9
20°-30°	1195.1	34.1
30°-40°	374.2	10.7
40°-50°	65.5	1.9
50°-60°	13.1	0.4
60°-70°	2.0	0.1
70°-80°	0.0	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°	3051.9	87.0
0°-40°	3426.0	97.7
0°-60°	3504.6	99.9
0°-90°	3506.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3506.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5650	
5°	5570	526
15°	4836	1330
25°	2680	1195
35°	523	374
45°	77	66
55°	13	13
65°	1	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5650.0
2.5°	5621.9
5°	5569.5
7.5°	5489.4
10°	5415.1
12.5°	5176.9
15°	4836.4
17.5°	4403.8
20°	3915.1
22.5°	3349.7
25°	2680.4
27.5°	1970.7
30°	1355.7
32.5°	882.7
35°	522.6
37.5°	300.1
40°	181.5
42.5°	118.1
45°	76.7
47.5°	46.7
50°	28.6
52.5°	19.5
55°	13.3
57.5°	9.1
60°	5.7
62.5°	3.3
65°	1.4
67.5°	0.5
70°	0.0
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

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— 0°-180°

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(END OF REPORT)