

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: P748010

Luminaire Tested: LD4D40BD010-EU4DR6040509027-4LBDP1H

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748010  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D40BD010-EU4DR6040509027-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3661.9 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

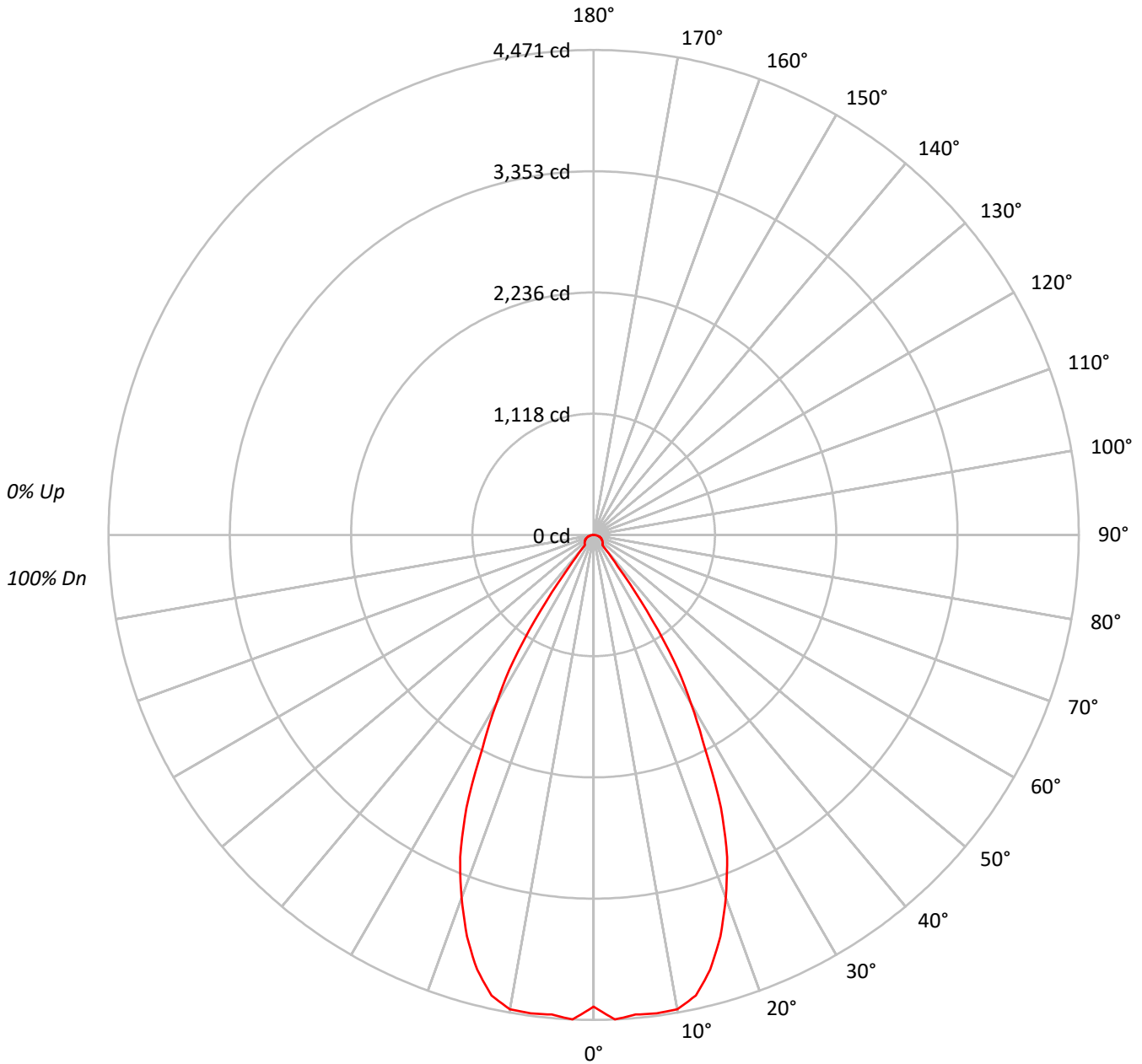
Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86																
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			80																
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75																
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70																
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66																
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			62																
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59																
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55																
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53																

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

	0°
0°	475175
5°	486861
10°	492746
15°	469405
20°	413873
25°	334748
30°	226426
35°	113469
40°	18399
45°	18017
50°	18375
55°	18649
60°	19164
65°	19597
70°	20062
75°	20305
80°	19568
85°	16297

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 75°  
 Luminance: 20305 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.3	11.6
10°-20°	1147.9	31.3
20°-30°	1235.0	33.7
30°-40°	536.8	14.7
40°-50°	90.2	2.5
50°-60°	87.7	2.4
60°-70°	75.0	2.0
70°-80°	50.2	1.4
80°-90°	15.0	0.4
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°	2807.1	76.7
0°-40°	3343.9	91.3
0°-60°	3521.8	96.2
0°-90°	3661.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3661.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4349	
5°	4439	424
15°	4150	1148
25°	2777	1235
35°	851	537
45°	117	90
55°	98	88
65°	76	75
75°	48	50
85°	13	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4349.0
2.5°	4471.3
5°	4439.0
7.5°	4449.2
10°	4441.3
12.5°	4349.6
15°	4149.8
17.5°	3881.5
20°	3559.5
22.5°	3214.8
25°	2776.7
27.5°	2220.9
30°	1794.7
32.5°	1383.3
35°	850.7
37.5°	363.9
40°	129.0
42.5°	118.9
45°	116.6
47.5°	112.6
50°	108.1
52.5°	103.0
55°	97.9
57.5°	92.8
60°	87.7
62.5°	82.1
65°	75.8
67.5°	69.6
70°	62.8
72.5°	55.5
75°	48.1
77.5°	39.6
80°	31.1
82.5°	22.1
85°	13.0
87.5°	4.5
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)