

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: P748036

Luminaire Tested: LD4D40BD010-EU4DR6040509035-4LBDP1H

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748036  
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-EU4DR6040509035-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3812.3 lumens  
Efficiency: N/A  
Efficacy: 108.3 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

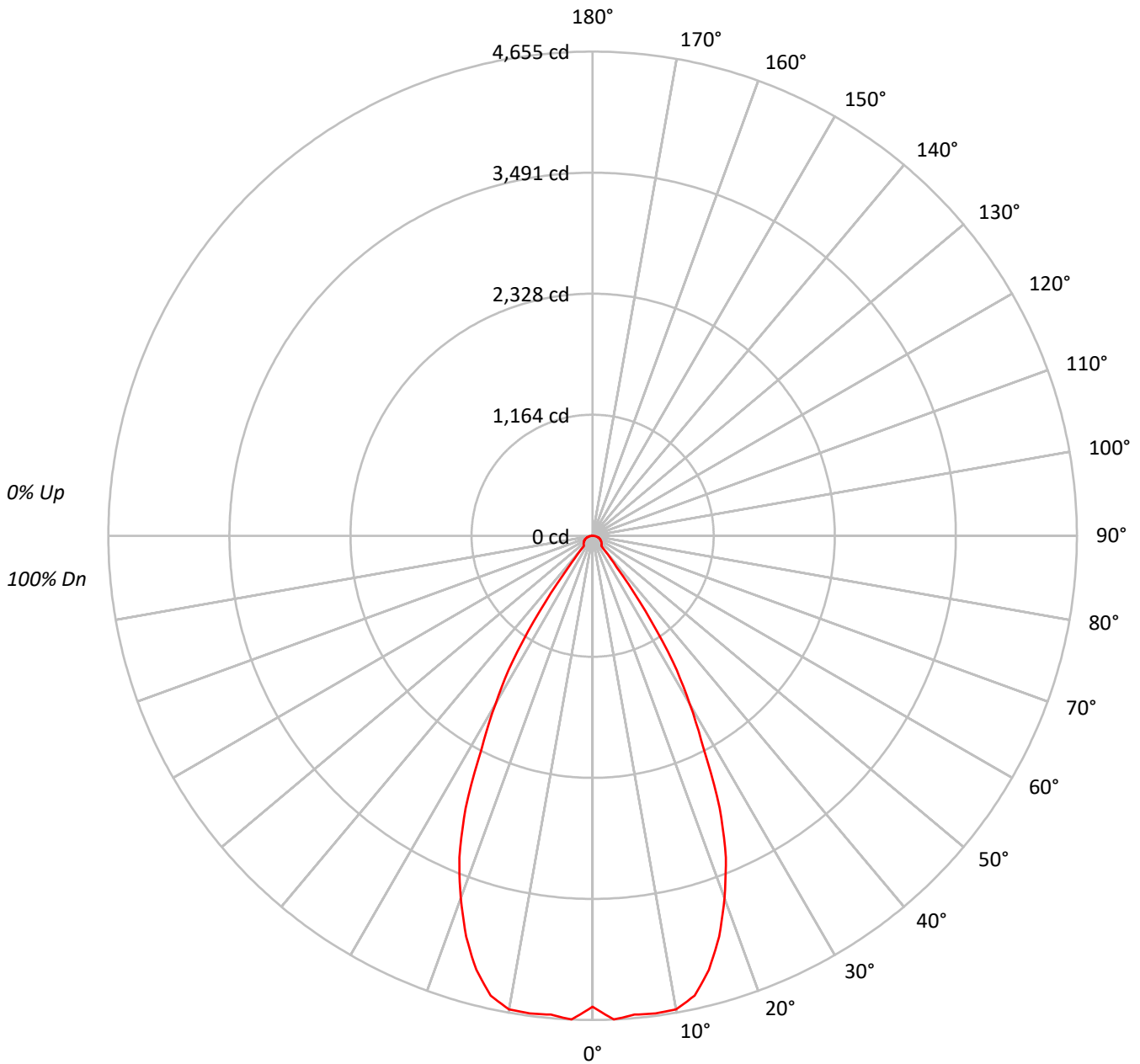
Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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																			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

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

	0°
0°	494689
5°	506855
10°	512982
15°	488680
20°	430872
25°	348503
30°	235724
35°	118124
40°	19155
45°	18758
50°	19123
55°	19411
60°	19951
65°	20424
70°	20892
75°	21150
80°	20386
85°	17049

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 75°  
 Luminance: 21150 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.7	11.6
10°-20°	1195.0	31.3
20°-30°	1285.7	33.7
30°-40°	558.9	14.7
40°-50°	93.9	2.5
50°-60°	91.2	2.4
60°-70°	78.1	2.0
70°-80°	52.2	1.4
80°-90°	15.6	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°	2922.4	76.7
0°-40°	3481.3	91.3
0°-60°	3666.4	96.2
0°-90°	3812.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3812.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4528	
5°	4621	442
15°	4320	1195
25°	2891	1286
35°	886	559
45°	121	94
55°	102	91
65°	79	78
75°	50	52
85°	14	16
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4527.6
2.5°	4654.9
5°	4621.3
7.5°	4631.9
10°	4623.7
12.5°	4528.2
15°	4320.2
17.5°	4040.9
20°	3705.7
22.5°	3346.8
25°	2890.8
27.5°	2312.1
30°	1868.4
32.5°	1440.1
35°	885.6
37.5°	378.9
40°	134.3
42.5°	123.7
45°	121.4
47.5°	117.3
50°	112.5
52.5°	107.2
55°	101.9
57.5°	96.6
60°	91.3
62.5°	85.4
65°	79.0
67.5°	72.5
70°	65.4
72.5°	57.7
75°	50.1
77.5°	41.2
80°	32.4
82.5°	23.0
85°	13.6
87.5°	4.7
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)