

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: P748219

Luminaire Tested: LD4D40BD010-EU4DR7040509050-4LBDP1LI

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748219  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D40BD010-EU4DR7040509050-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4247.7 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82  
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

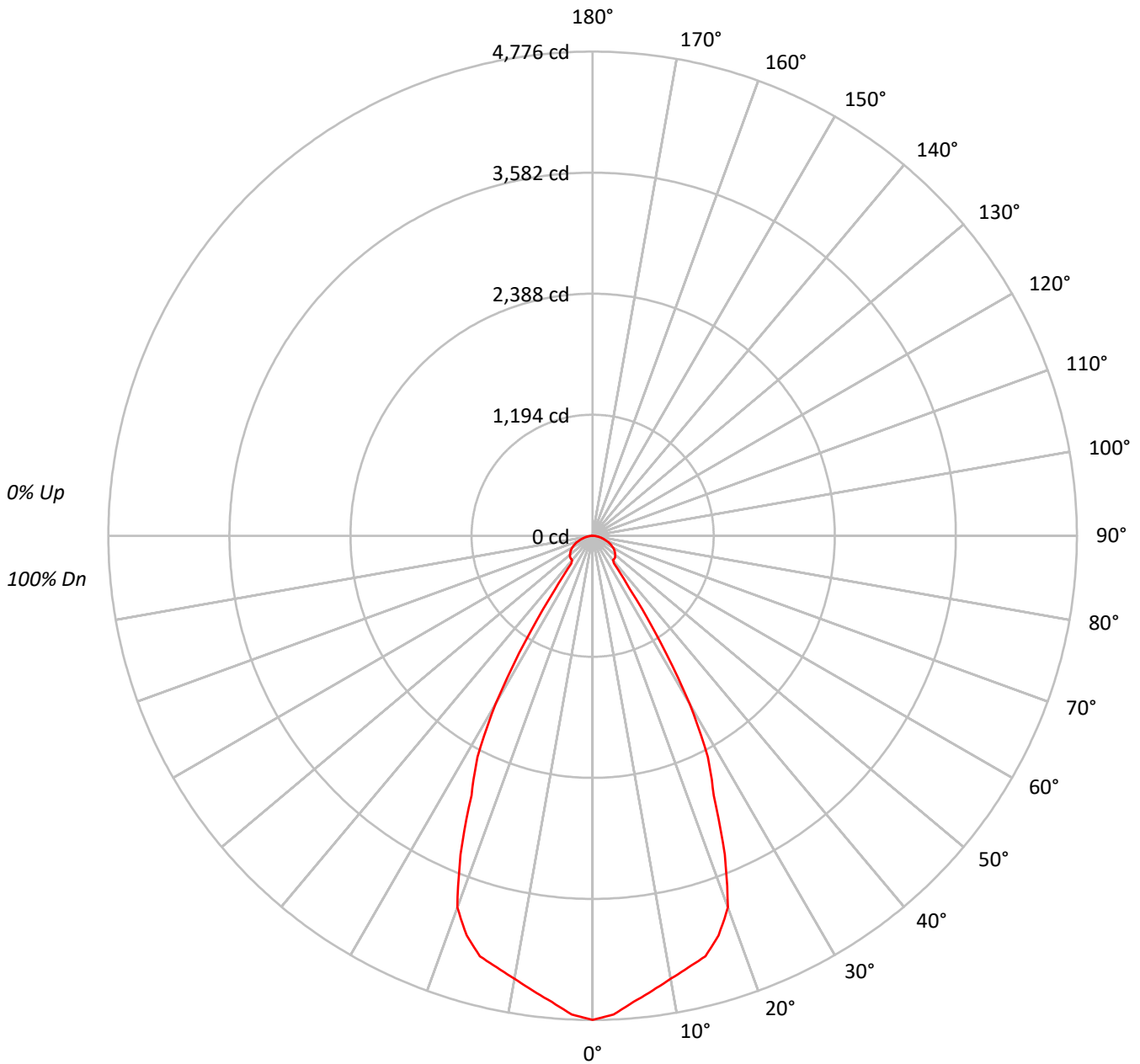


Downlight

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			

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

	0°
0°	521786
5°	506285
10°	492180
15°	485716
20°	453557
25°	340739
30°	240871
35°	85325
40°	44857
45°	47792
50°	49481
55°	50404
60°	50719
65°	49664
70°	46864
75°	43397
80°	38508
85°	31341

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 50736 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.4	10.3
10°-20°	1194.3	28.1
20°-30°	1315.3	31.0
30°-40°	502.5	11.8
40°-50°	237.3	5.6
50°-60°	235.9	5.6
60°-70°	188.9	4.4
70°-80°	108.5	2.6
80°-90°	29.5	0.7
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°	2945.0	69.3
0°-40°	3447.5	81.2
0°-60°	3920.7	92.3
0°-90°	4247.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4247.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4776	
5°	4616	435
15°	4294	1194
25°	2826	1315
35°	640	503
45°	309	237
55°	265	236
65°	192	189
75°	103	109
85°	25	30
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4775.6
2.5°	4725.7
5°	4616.1
7.5°	4524.6
10°	4436.2
12.5°	4361.3
15°	4294.0
17.5°	4131.4
20°	3900.8
22.5°	3403.3
25°	2826.4
27.5°	2460.4
30°	1909.2
32.5°	1233.2
35°	639.7
37.5°	345.5
40°	314.5
42.5°	312.3
45°	309.3
47.5°	302.4
50°	291.1
52.5°	278.3
55°	264.6
57.5°	249.5
60°	232.1
62.5°	212.5
65°	192.1
67.5°	169.4
70°	146.7
72.5°	124.0
75°	102.8
77.5°	80.9
80°	61.2
82.5°	43.1
85°	25.0
87.5°	9.8
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)