

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: P754706

Luminaire Tested: LD4D85BD010-EU4DR4070959024-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D85BD010-EU4DR4070959024-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 40° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7609.8 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

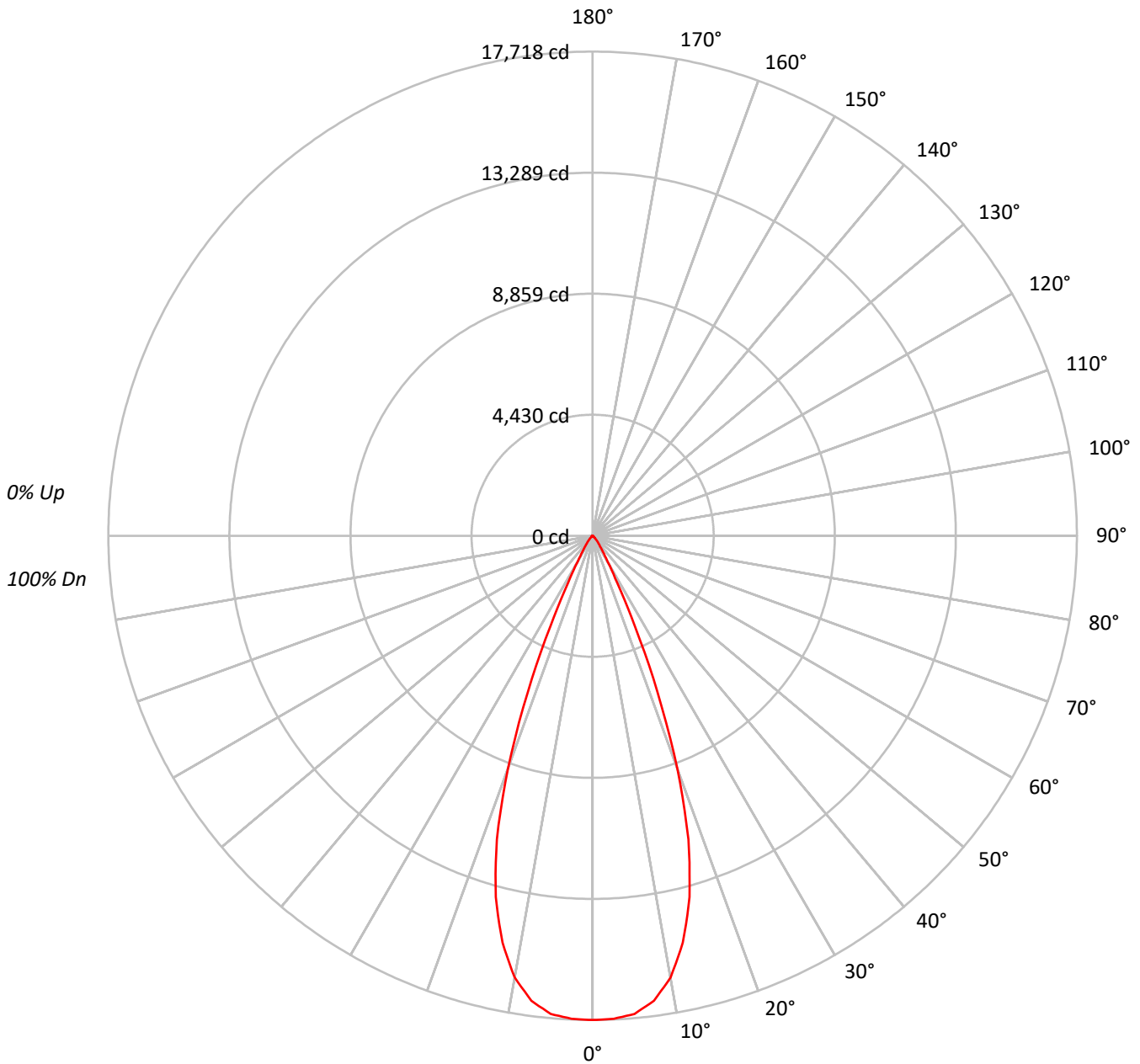
Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	115	112	110	108	112	110	108	107	106	105	103		103	101	100		99	98	97	96
2	110	106	103	100	108	105	102	99	102	99	97		99	97	95		96	95	93	92
3	106	101	97	94	104	100	96	93	97	94	92		95	93	90		93	91	89	88
4	102	97	92	89	101	95	91	88	93	90	87		92	89	86		90	87	85	84
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87	84	82	81
6	95	88	84	80	94	88	83	80	86	82	80		85	82	79		84	81	79	77
7	92	85	80	77	91	84	80	77	83	79	76		82	79	76		81	78	76	74
8	89	82	77	74	88	81	77	74	80	76	73		79	76	73		78	75	73	72
9	86	79	74	71	85	78	74	71	77	73	71		76	73	70		76	72	70	69
10	83	76	71	68	82	75	71	68	75	71	68		74	70	68		73	70	68	67

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

	0°
0°	1935849
5°	1926441
10°	1820906
15°	1548002
20°	1055072
25°	440222
30°	138414
35°	64331
40°	35572
45°	16317
50°	7921
55°	4343
60°	2273
65°	801
70°	319
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16317 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1640.1	21.6
10°-20°	3674.2	48.3
20°-30°	1839.2	24.2
30°-40°	337.1	4.4
40°-50°	93.0	1.2
50°-60°	21.9	0.3
60°-70°	4.2	0.1
70°-80°	0.1	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°	7153.5	94.0
0°-40°	7490.6	98.4
0°-60°	7605.5	99.9
0°-90°	7609.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7609.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	17718	
5°	17564	###
15°	13685	3674
25°	3652	1839
35°	482	337
45°	106	93
55°	23	22
65°	3	4
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	17717.7
2.5°	17691.8
5°	17564.5
7.5°	17158.8
10°	16412.5
12.5°	15249.1
15°	13685.2
17.5°	11651.4
20°	9074.1
22.5°	6186.4
25°	3651.6
27.5°	1930.3
30°	1097.1
32.5°	709.0
35°	482.3
37.5°	344.7
40°	249.4
42.5°	170.8
45°	105.6
47.5°	67.3
50°	46.6
52.5°	33.1
55°	22.8
57.5°	14.5
60°	10.4
62.5°	6.2
65°	3.1
67.5°	2.1
70°	1.0
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)