

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: P755227

Luminaire Tested: LD4D85BD010-EU4DR7070959040-4LBDP1MW

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755227  
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: LD4D85BD010-EU4DR7070959040-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6757.0 lumens  
Efficiency: N/A  
Efficacy: 77.0 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

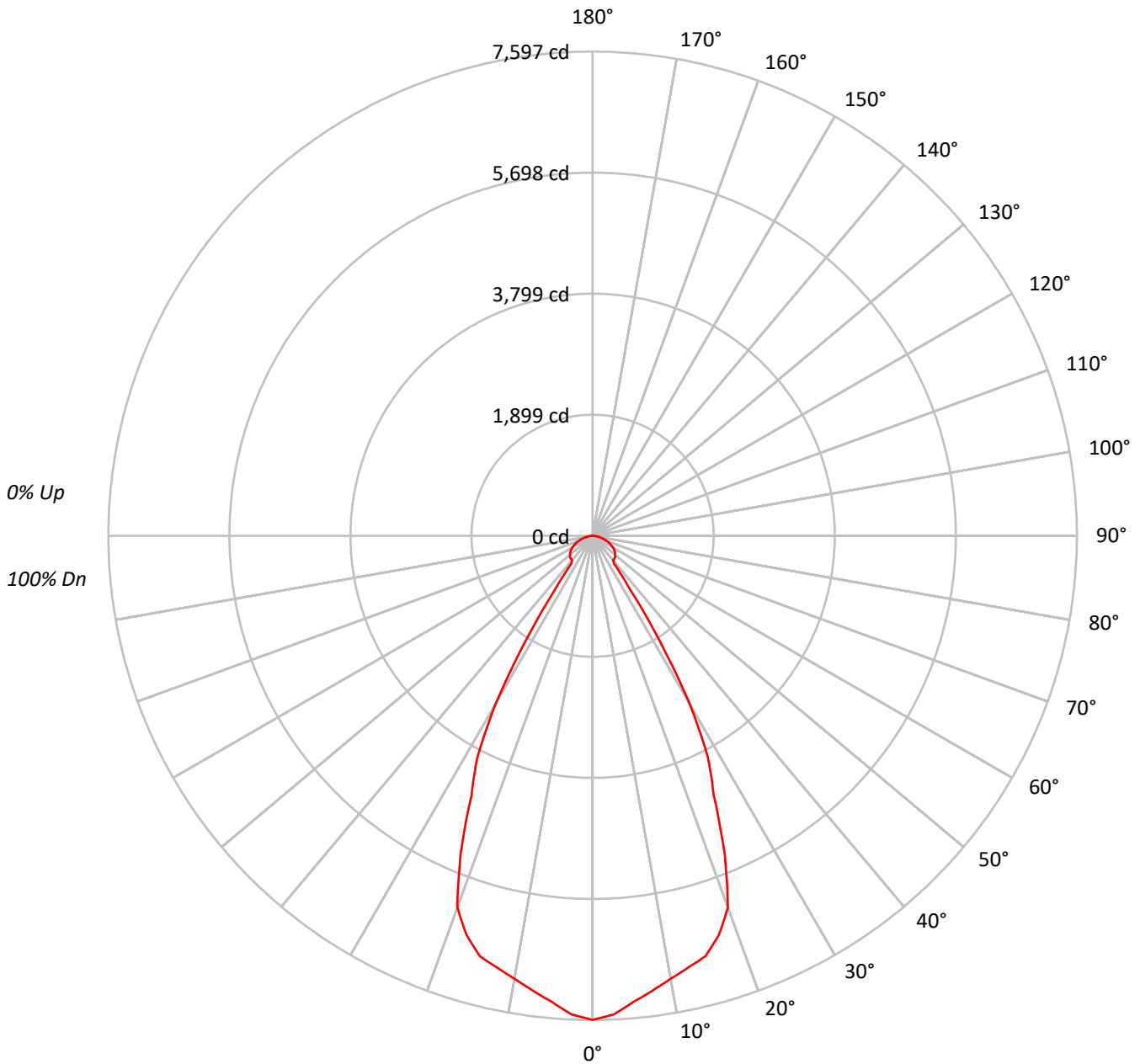
Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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°	830032
5°	805366
10°	782926
15°	772644
20°	721496
25°	542019
30°	383158
35°	135730
40°	71372
45°	76007
50°	78718
55°	80196
60°	80700
65°	78982
70°	74529
75°	69064
80°	61285
85°	49769

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 80710 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	692.6	10.3
10°-20°	1899.8	28.1
20°-30°	2092.4	31.0
30°-40°	799.4	11.8
40°-50°	377.5	5.6
50°-60°	375.3	5.6
60°-70°	300.4	4.4
70°-80°	172.7	2.6
80°-90°	46.9	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°	4684.7	69.3
0°-40°	5484.2	81.2
0°-60°	6236.9	92.3
0°-90°	6757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6757.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7597	
5°	7343	693
15°	6831	1900
25°	4496	2092
35°	1018	799
45°	492	377
55°	421	375
65°	306	300
75°	164	173
85°	40	47
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7596.8
2.5°	7517.4
5°	7343.0
7.5°	7197.5
10°	7056.8
12.5°	6937.7
15°	6830.6
17.5°	6572.0
20°	6205.2
22.5°	5413.8
25°	4496.0
27.5°	3913.9
30°	3037.0
32.5°	1961.7
35°	1017.6
37.5°	549.7
40°	500.4
42.5°	496.8
45°	491.9
47.5°	481.1
50°	463.1
52.5°	442.6
55°	421.0
57.5°	396.9
60°	369.3
62.5°	338.0
65°	305.5
67.5°	269.4
70°	233.3
72.5°	197.3
75°	163.6
77.5°	128.7
80°	97.4
82.5°	68.6
85°	39.7
87.5°	15.6
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)