

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: P755965

Luminaire Tested: LD4D90BD010-EU4DR7070959027-4LBDP1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755965  
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: LD4D90BD010-EU4DR7070959027-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4899.7 lumens  
Efficiency: N/A  
Efficacy: 49.5 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

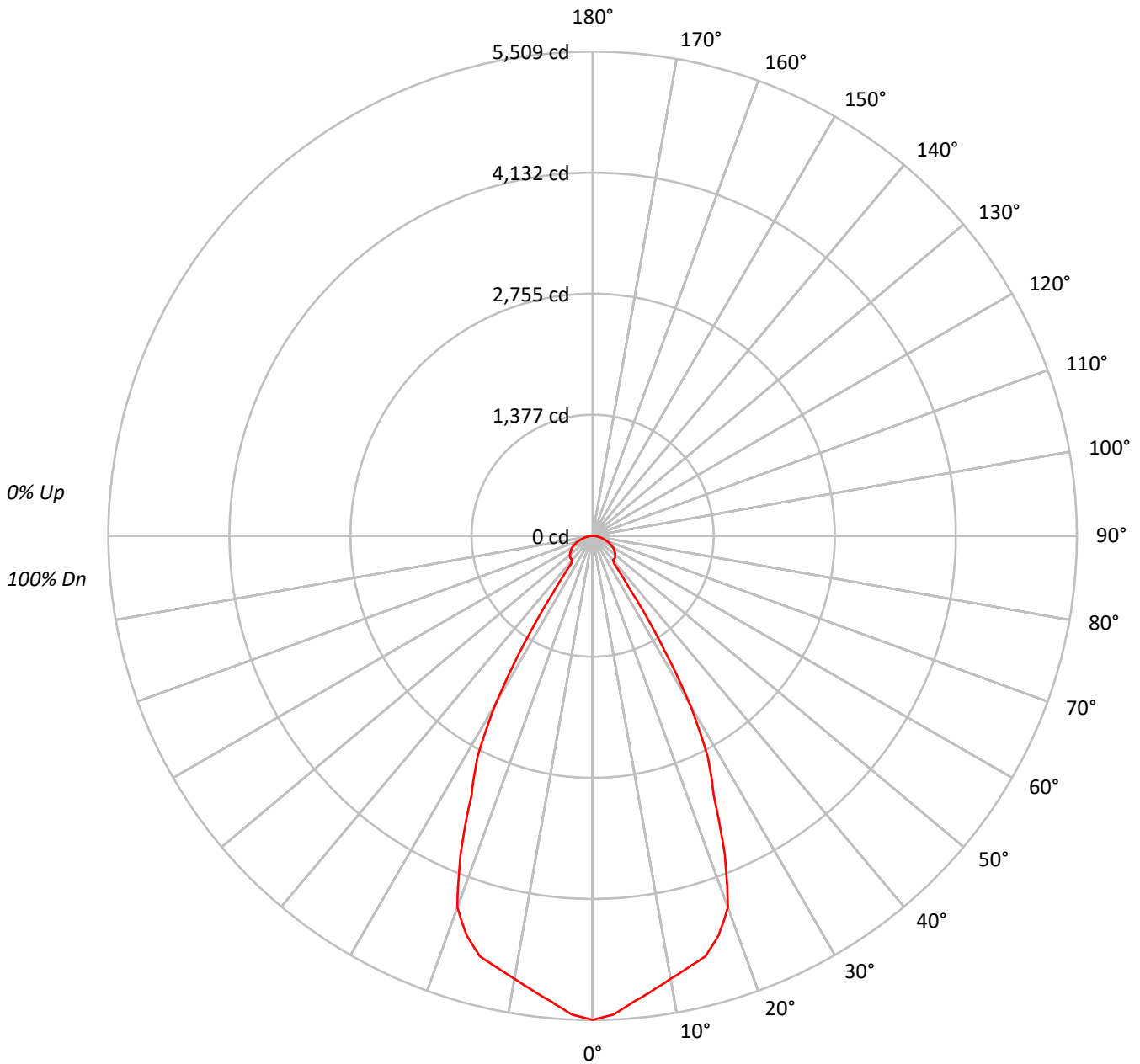
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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°	601896
5°	584003
10°	567723
15°	560281
20°	523181
25°	393036
30°	277850
35°	98423
40°	51746
45°	55117
50°	57079
55°	58157
60°	58520
65°	57265
70°	54052
75°	50067
80°	44422
85°	36104

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 58525 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.2	10.3
10°-20°	1377.6	28.1
20°-30°	1517.2	31.0
30°-40°	579.7	11.8
40°-50°	273.7	5.6
50°-60°	272.1	5.6
60°-70°	217.9	4.4
70°-80°	125.2	2.6
80°-90°	34.0	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°	3397.1	69.3
0°-40°	3976.8	81.2
0°-60°	4522.6	92.3
0°-90°	4899.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4899.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5509	
5°	5325	502
15°	4953	1378
25°	3260	1517
35°	738	580
45°	357	274
55°	305	272
65°	222	218
75°	119	125
85°	29	34
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5508.8
2.5°	5451.2
5°	5324.7
7.5°	5219.2
10°	5117.1
12.5°	5030.8
15°	4953.2
17.5°	4765.6
20°	4499.6
22.5°	3925.7
25°	3260.2
27.5°	2838.1
30°	2202.3
32.5°	1422.5
35°	737.9
37.5°	398.6
40°	362.8
42.5°	360.2
45°	356.7
47.5°	348.9
50°	335.8
52.5°	321.0
55°	305.3
57.5°	287.8
60°	267.8
62.5°	245.1
65°	221.5
67.5°	195.4
70°	169.2
72.5°	143.0
75°	118.6
77.5°	93.3
80°	70.6
82.5°	49.7
85°	28.8
87.5°	11.3
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)