

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: P754344

Luminaire Tested: LD4D80BD010-EU4DR6570959030-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754344  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D80BD010-EU4DR6570959030-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6517.5 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96  
Luminous Opening: Circular (Dia: 0.48' x H: 0')  
CIE Type: Direct

Input Watts (W): 78.9  
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

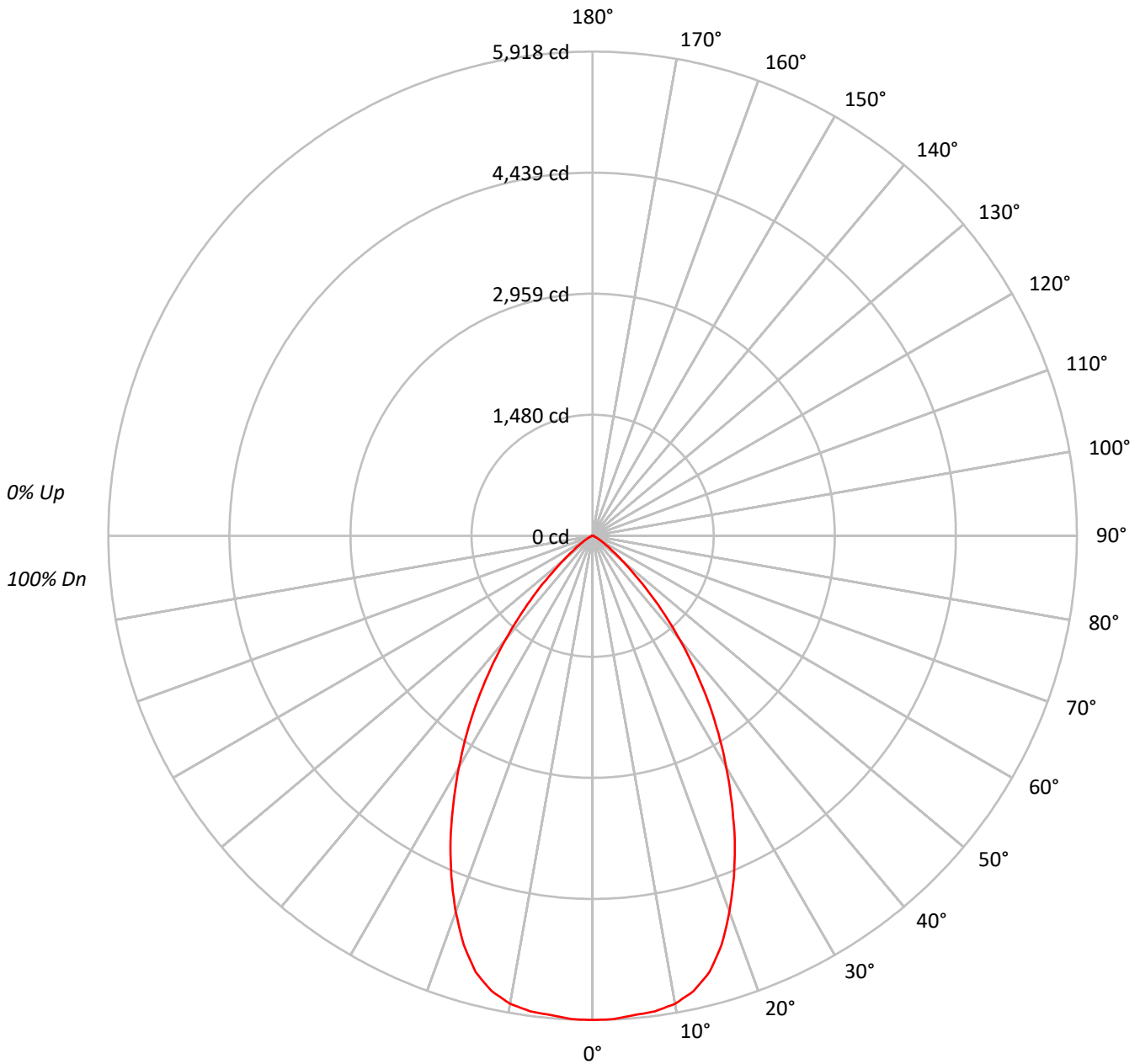


Downlight

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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46

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

	0°
0°	345617
5°	344744
10°	344448
15°	333835
20°	303911
25°	264842
30°	220276
35°	174537
40°	125973
45°	79581
50°	41478
55°	22045
60°	11576
65°	6371
70°	2681
75°	2934
80°	2052
85°	1742

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 79581 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	559.6	8.6
10°-20°	1532.5	23.5
20°-30°	1873.2	28.7
30°-40°	1519.9	23.3
40°-50°	757.4	11.6
50°-60°	211.2	3.2
60°-70°	48.0	0.7
70°-80°	12.5	0.2
80°-90°	3.2	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°	3965.3	60.8
0°-40°	5485.2	84.2
0°-60°	6453.8	99.0
0°-90°	6517.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6517.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5918	
5°	5880	560
15°	5521	1532
25°	4110	1873
35°	2448	1520
45°	964	757
55°	216	211
65°	46	48
75°	13	12
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5917.7
2.5°	5913.4
5°	5880.3
7.5°	5861.2
10°	5808.1
12.5°	5700.3
15°	5521.2
17.5°	5241.1
20°	4889.8
22.5°	4510.7
25°	4109.8
27.5°	3681.1
30°	3266.3
32.5°	2856.7
35°	2448.0
37.5°	2040.1
40°	1652.3
42.5°	1288.8
45°	963.5
47.5°	671.3
50°	456.5
52.5°	314.8
55°	216.5
57.5°	146.1
60°	99.1
62.5°	68.7
65°	46.1
67.5°	23.5
70°	15.7
72.5°	14.8
75°	13.0
77.5°	8.7
80°	6.1
82.5°	4.3
85°	2.6
87.5°	1.7
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)