

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: P754704

Luminaire Tested: LD4D85BD010-EU4DR4070959024-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754704
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-EU4DR4070959024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6459.0 lumens
Efficiency: N/A
Efficacy: 73.6 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

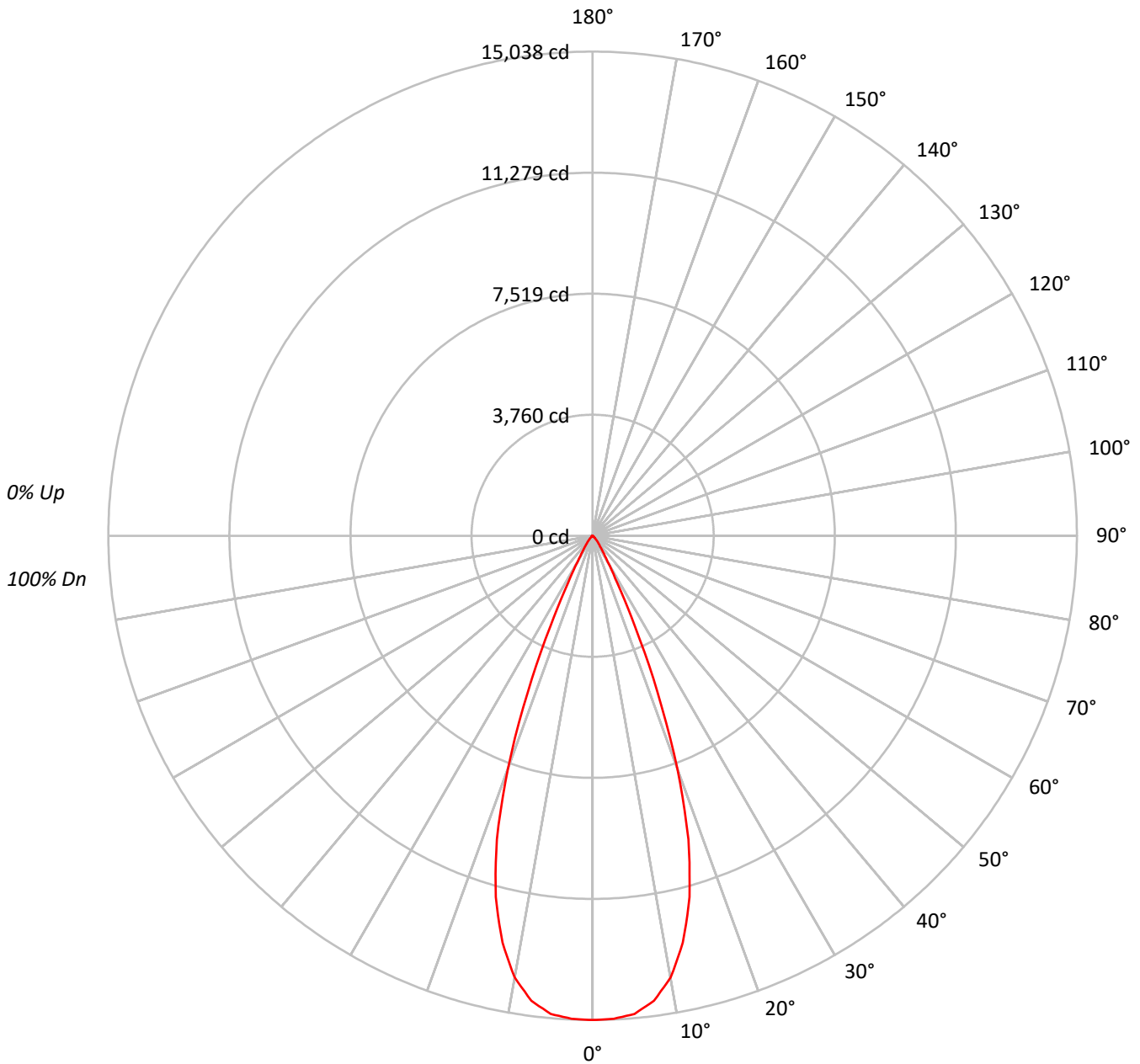
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1643074
5°	1635092
10°	1545515
15°	1313888
20°	895510
25°	373639
30°	117483
35°	54607
40°	30195
45°	13845
50°	6714
55°	3676
60°	1923
65°	672
70°	288
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13845 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1392.0	21.6
10°-20°	3118.6	48.3
20°-30°	1561.0	24.2
30°-40°	286.2	4.4
40°-50°	79.0	1.2
50°-60°	18.5	0.3
60°-70°	3.6	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°	6071.6	94.0
0°-40°	6357.8	98.4
0°-60°	6455.3	99.9
0°-90°	6459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6459.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15038	
5°	14908	###
15°	11616	3119
25°	3099	1561
35°	409	286
45°	90	79
55°	19	19
65°	3	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15038.1
2.5°	15016.2
5°	14908.1
7.5°	14563.7
10°	13930.3
12.5°	12942.9
15°	11615.5
17.5°	9889.3
20°	7701.8
22.5°	5250.8
25°	3099.3
27.5°	1638.4
30°	931.2
32.5°	601.8
35°	409.4
37.5°	292.5
40°	211.7
42.5°	145.0
45°	89.6
47.5°	57.1
50°	39.5
52.5°	28.1
55°	19.3
57.5°	12.3
60°	8.8
62.5°	5.3
65°	2.6
67.5°	1.8
70°	0.9
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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