

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: P755200

Luminaire Tested: LD4D85BD010-EU4DR7070959030-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755200
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-EU4DR7070959030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8587.1 lumens
Efficiency: N/A
Efficacy: 97.9 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

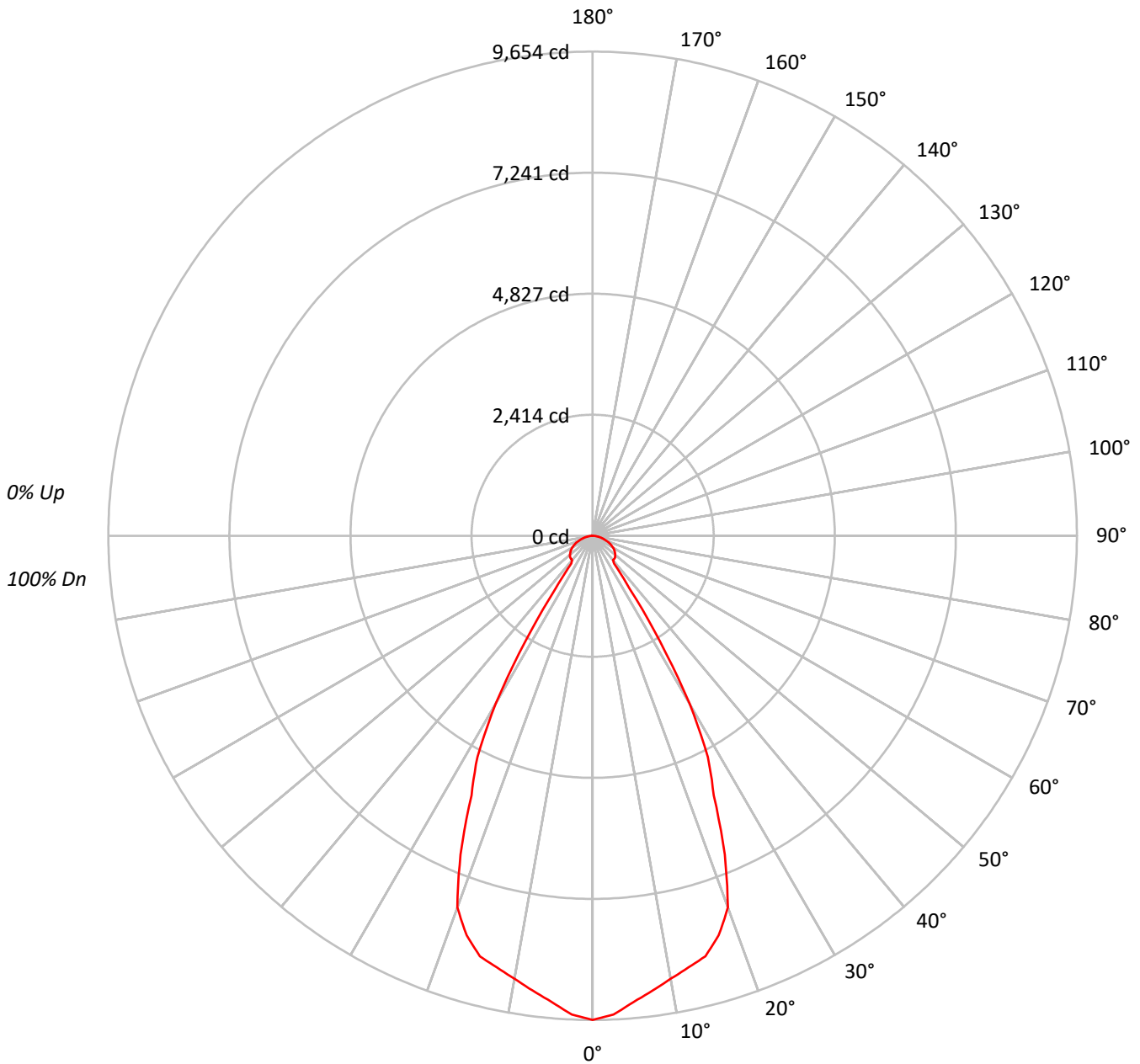
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			70
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			65
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			57
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			53
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			50
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1054847
5°	1023494
10°	994966
15°	981918
20°	916905
25°	688820
30°	486940
35°	172491
40°	90698
45°	96605
50°	100033
55°	101912
60°	102552
65°	100388
70°	94719
75°	87765
80°	77896
85°	63183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 102571 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.2	10.3
10°-20°	2414.3	28.1
20°-30°	2659.0	31.0
30°-40°	1016.0	11.8
40°-50°	479.7	5.6
50°-60°	476.9	5.6
60°-70°	381.8	4.4
70°-80°	219.5	2.6
80°-90°	59.6	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°	5953.6	69.3
0°-40°	6969.5	81.2
0°-60°	7926.1	92.3
0°-90°	8587.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8587.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9654	
5°	9332	880
15°	8681	2414
25°	5714	2659
35°	1293	1016
45°	625	480
55°	535	477
65°	388	382
75°	208	219
85°	50	60
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9654.4
2.5°	9553.5
5°	9331.8
7.5°	9146.9
10°	8968.0
12.5°	8816.7
15°	8680.7
17.5°	8352.0
20°	7885.8
22.5°	6880.0
25°	5713.7
27.5°	4973.9
30°	3859.6
32.5°	2493.1
35°	1293.2
37.5°	698.5
40°	635.9
42.5°	631.3
45°	625.2
47.5°	611.4
50°	588.5
52.5°	562.5
55°	535.0
57.5°	504.4
60°	469.3
62.5°	429.5
65°	388.3
67.5°	342.4
70°	296.5
72.5°	250.7
75°	207.9
77.5°	163.6
80°	123.8
82.5°	87.1
85°	50.4
87.5°	19.9
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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