

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: P755043

Luminaire Tested: LD4D85BD010-EU4DR6070959030-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR6070959030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8124.9 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

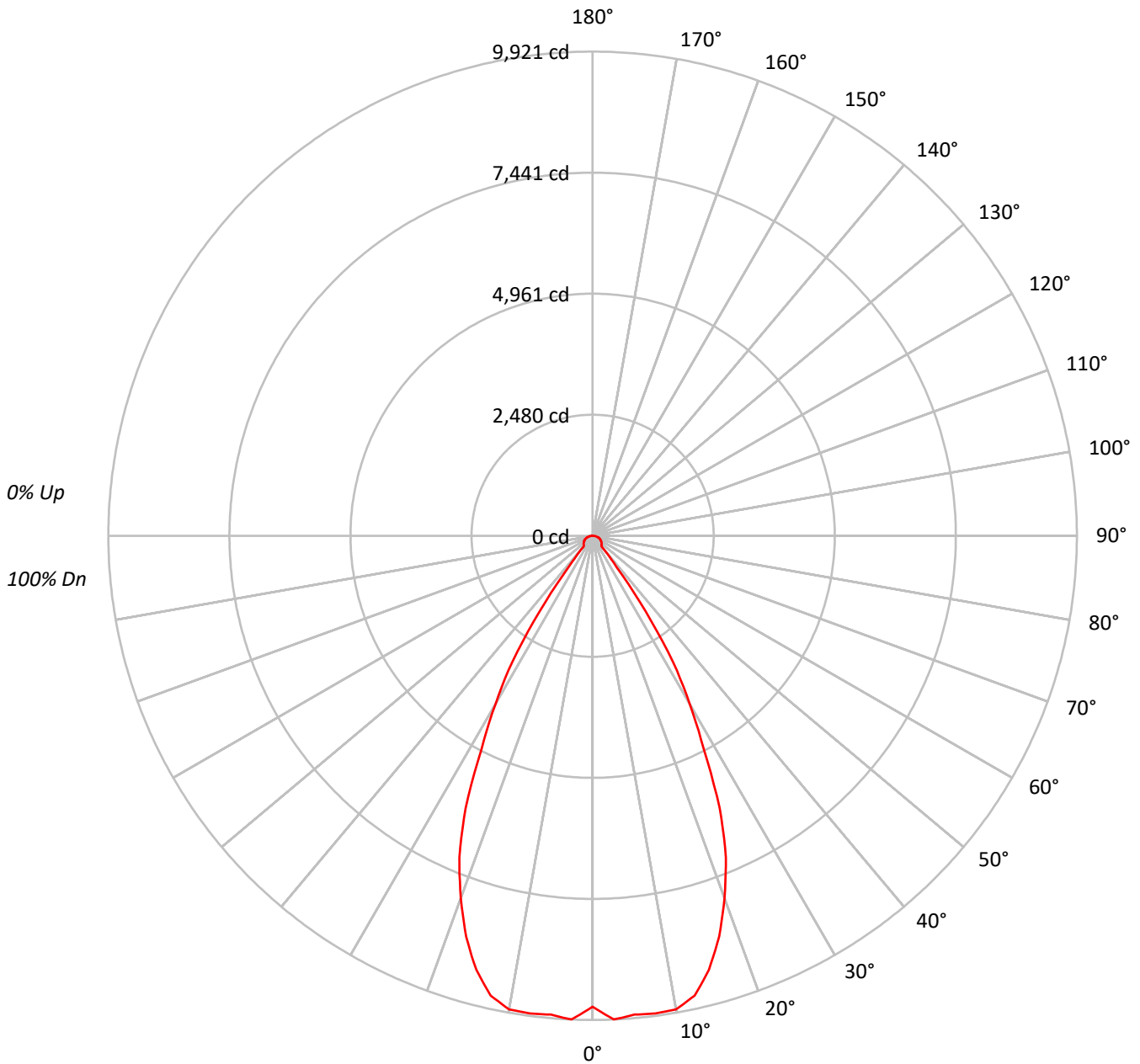
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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			100																
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86																
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			80																
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75																
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70																
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66																
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			62																
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59																
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55																
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1054290
5°	1080220
10°	1093265
15°	1041484
20°	918265
25°	742721
30°	502383
35°	251747
40°	40835
45°	39974
50°	40778
55°	41374
60°	42524
65°	43511
70°	44532
75°	45044
80°	43478
85°	36230

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 45044 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	941.3	11.6
10°-20°	2546.8	31.3
20°-30°	2740.1	33.7
30°-40°	1191.1	14.7
40°-50°	200.1	2.5
50°-60°	194.5	2.4
60°-70°	166.4	2.0
70°-80°	111.3	1.4
80°-90°	33.3	0.4
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°	6228.2	76.7
0°-40°	7419.3	91.3
0°-60°	7813.9	96.2
0°-90°	8124.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8124.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9649	
5°	9849	941
15°	9207	2547
25°	6161	2740
35°	1887	1191
45°	259	200
55°	217	195
65°	168	166
75°	107	111
85°	29	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9649.3
2.5°	9920.6
5°	9849.0
7.5°	9871.6
10°	9854.0
12.5°	9650.6
15°	9207.3
17.5°	8612.1
20°	7897.5
22.5°	7132.8
25°	6160.8
27.5°	4927.6
30°	3982.0
32.5°	3069.1
35°	1887.4
37.5°	807.5
40°	286.3
42.5°	263.7
45°	258.7
47.5°	249.9
50°	239.9
52.5°	228.6
55°	217.2
57.5°	205.9
60°	194.6
62.5°	182.1
65°	168.3
67.5°	154.5
70°	139.4
72.5°	123.1
75°	106.7
77.5°	87.9
80°	69.1
82.5°	49.0
85°	28.9
87.5°	10.0
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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(END OF REPORT)