

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: P755173

Luminaire Tested: LD4D85BD010-EU4DR7070959024-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755173
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-EU4DR7070959024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7007.8 lumens
Efficiency: N/A
Efficacy: 79.9 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

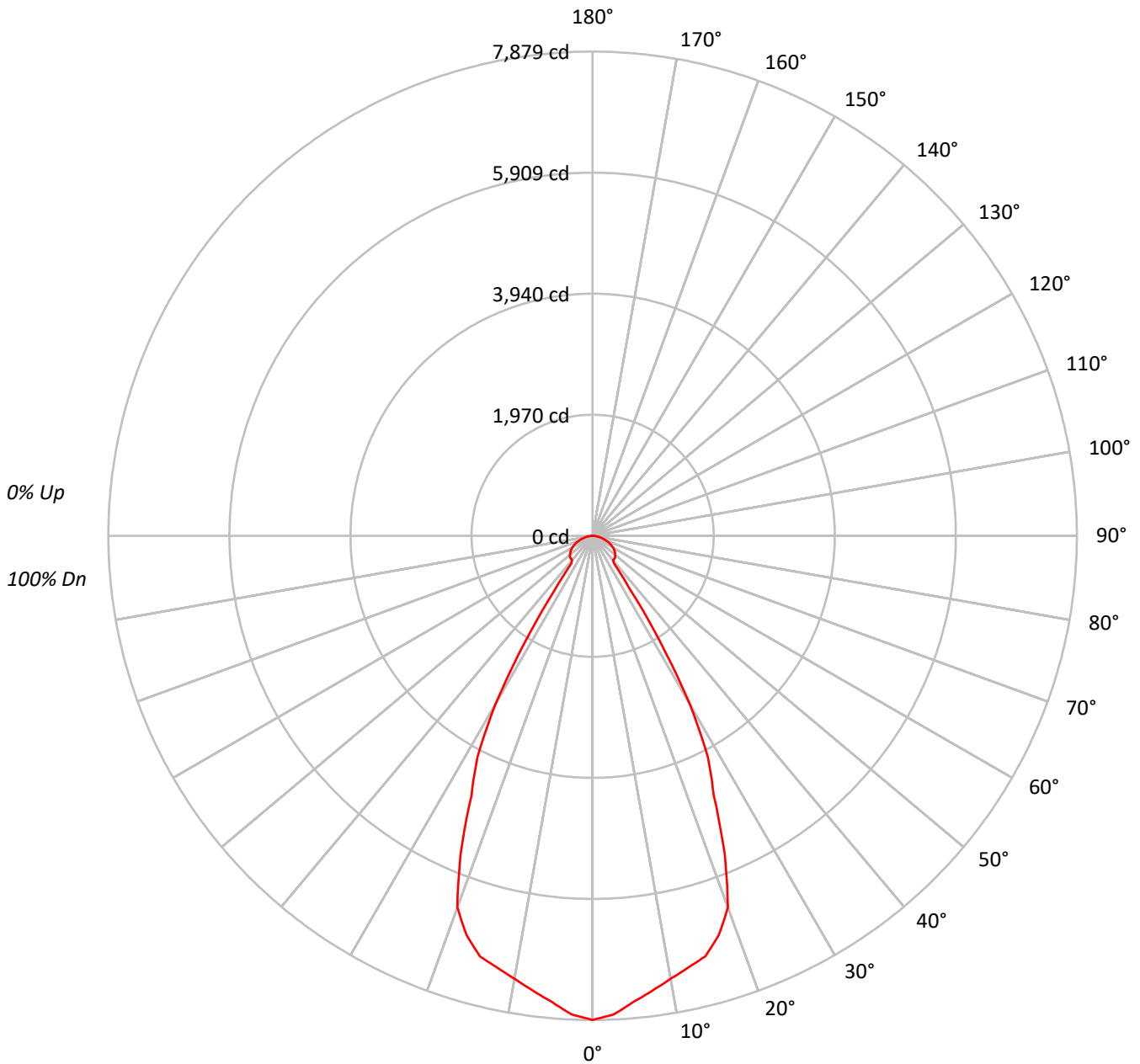
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	860844
5°	835265
10°	811983
15°	801330
20°	748274
25°	562140
30°	397390
35°	140759
40°	74011
45°	78835
50°	81641
55°	83168
60°	83694
65°	81903
70°	77309
75°	71639
80°	63550
85°	51649

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 83720 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.3	10.3
10°-20°	1970.3	28.1
20°-30°	2170.0	31.0
30°-40°	829.1	11.8
40°-50°	391.5	5.6
50°-60°	389.2	5.6
60°-70°	311.6	4.4
70°-80°	179.1	2.6
80°-90°	48.7	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°	4858.6	69.3
0°-40°	5687.7	81.2
0°-60°	6468.5	92.3
0°-90°	7007.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7007.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7879	
5°	7616	718
15°	7084	1970
25°	4663	2170
35°	1055	829
45°	510	391
55°	437	389
65°	317	312
75°	170	179
85°	41	49
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7878.8
2.5°	7796.4
5°	7615.6
7.5°	7464.6
10°	7318.7
12.5°	7195.2
15°	7084.2
17.5°	6816.0
20°	6435.5
22.5°	5614.7
25°	4662.9
27.5°	4059.1
30°	3149.8
32.5°	2034.6
35°	1055.3
37.5°	570.1
40°	518.9
42.5°	515.2
45°	510.2
47.5°	499.0
50°	480.3
52.5°	459.1
55°	436.6
57.5°	411.7
60°	383.0
62.5°	350.5
65°	316.8
67.5°	279.4
70°	242.0
72.5°	204.6
75°	169.7
77.5°	133.5
80°	101.0
82.5°	71.1
85°	41.2
87.5°	16.2
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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