

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: P755953

Luminaire Tested: LD4D90BD010-EU4DR7070959024-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755953
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: LD4D90BD010-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: 7434.3 lumens
Efficiency: N/A
Efficacy: 75.2 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

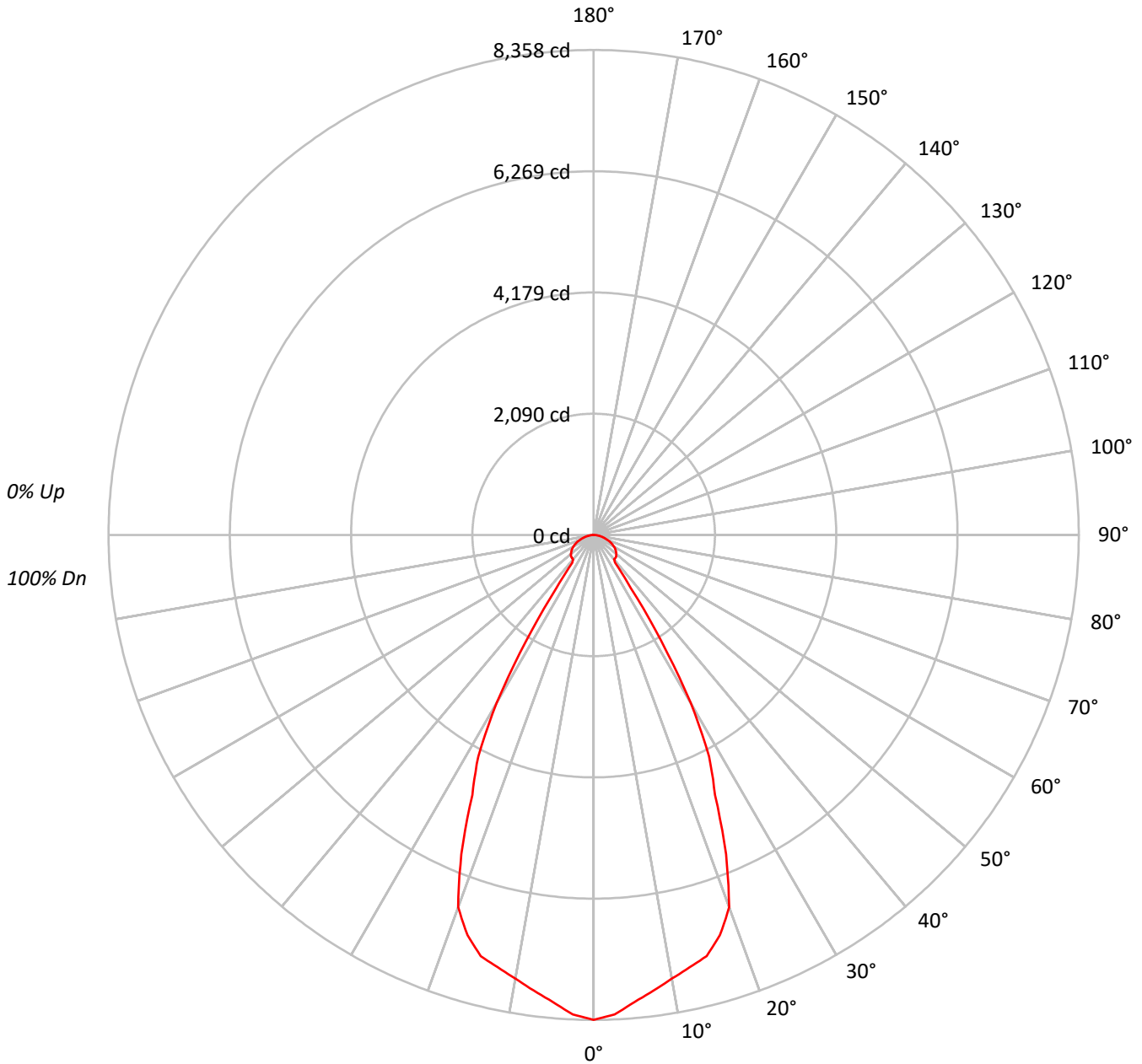
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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			
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°	913234
5°	886100
10°	861398
15°	850094
20°	793818
25°	596354
30°	421575
35°	149335
40°	78518
45°	83641
50°	86605
55°	88235
60°	88785
65°	86893
70°	82005
75°	75987
80°	67451
85°	54783

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 88804 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.0	10.3
10°-20°	2090.2	28.1
20°-30°	2302.1	31.0
30°-40°	879.6	11.8
40°-50°	415.3	5.6
50°-60°	412.9	5.6
60°-70°	330.6	4.4
70°-80°	190.0	2.6
80°-90°	51.7	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°	5154.3	69.3
0°-40°	6033.9	81.2
0°-60°	6862.1	92.3
0°-90°	7434.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7434.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8358	
5°	8079	762
15°	7515	2090
25°	4947	2302
35°	1120	880
45°	541	415
55°	463	413
65°	336	331
75°	180	190
85°	44	52
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8358.3
2.5°	8271.0
5°	8079.1
7.5°	7918.9
10°	7764.1
12.5°	7633.1
15°	7515.3
17.5°	7230.8
20°	6827.2
22.5°	5956.4
25°	4946.7
27.5°	4306.2
30°	3341.5
32.5°	2158.4
35°	1119.6
37.5°	604.8
40°	550.5
42.5°	546.5
45°	541.3
47.5°	529.3
50°	509.5
52.5°	487.0
55°	463.2
57.5°	436.7
60°	406.3
62.5°	371.9
65°	336.1
67.5°	296.4
70°	256.7
72.5°	217.0
75°	180.0
77.5°	141.6
80°	107.2
82.5°	75.4
85°	43.7
87.5°	17.2
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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