

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: P755981

Luminaire Tested: LD4D90BD010-EU4DR7070959030-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755981
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-EU4DR7070959030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6776.7 lumens
Efficiency: N/A
Efficacy: 68.5 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

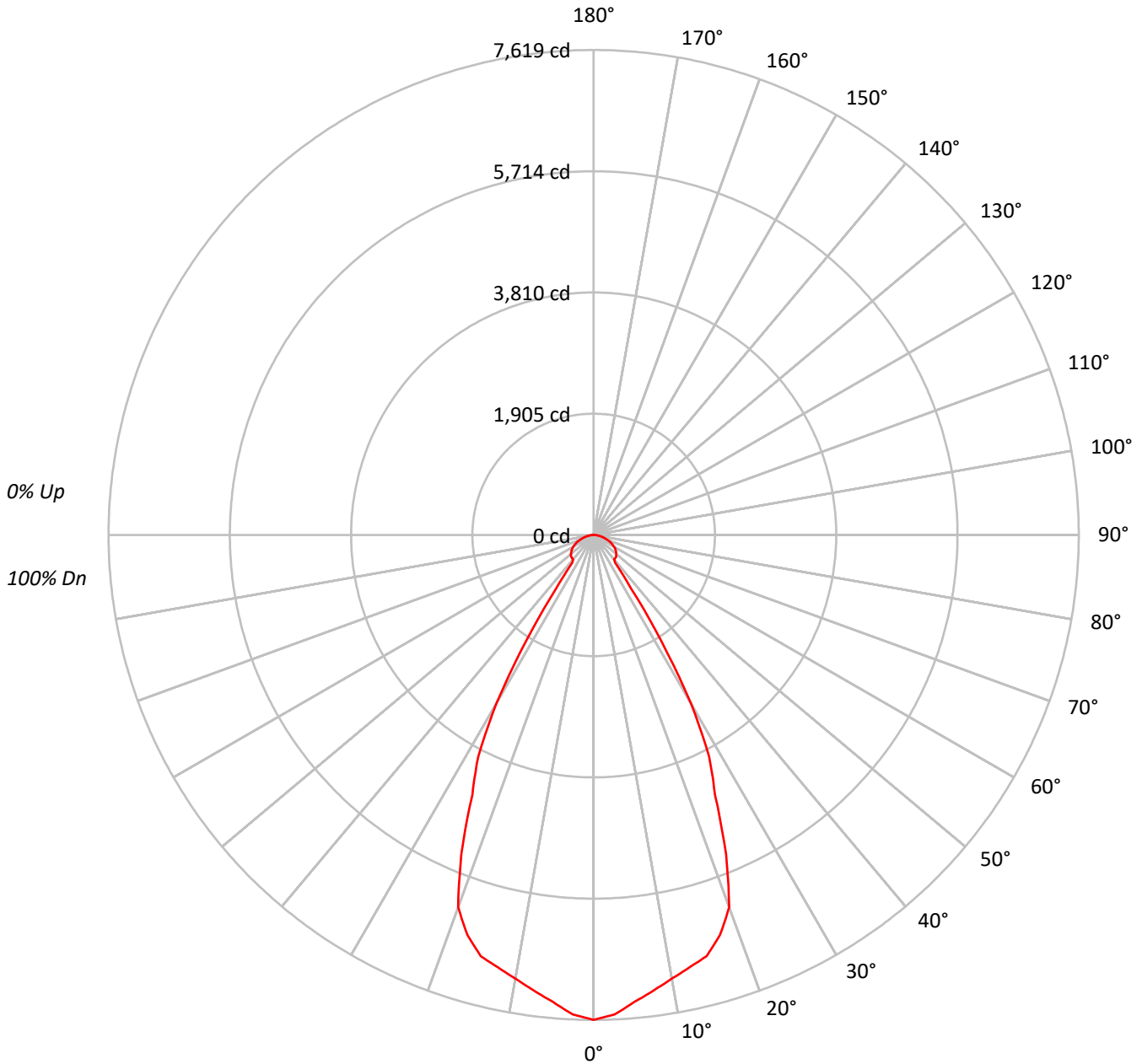
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	832458
5°	807713
10°	785200
15°	774906
20°	723601
25°	543599
30°	384281
35°	136117
40°	71572
45°	76239
50°	78939
55°	80425
60°	80919
65°	79215
70°	74753
75°	69275
80°	61474
85°	49894

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 80954 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.6	10.3
10°-20°	1905.3	28.1
20°-30°	2098.4	31.0
30°-40°	801.8	11.8
40°-50°	378.6	5.6
50°-60°	376.4	5.6
60°-70°	301.3	4.4
70°-80°	173.2	2.6
80°-90°	47.1	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°	4698.4	69.3
0°-40°	5500.2	81.2
0°-60°	6255.1	92.3
0°-90°	6776.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6776.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7619	
5°	7364	695
15°	6851	1905
25°	4509	2098
35°	1020	802
45°	493	379
55°	422	376
65°	306	301
75°	164	173
85°	40	47
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7619.0
2.5°	7539.3
5°	7364.4
7.5°	7218.5
10°	7077.3
12.5°	6957.9
15°	6850.6
17.5°	6591.2
20°	6223.3
22.5°	5429.5
25°	4509.1
27.5°	3925.3
30°	3045.9
32.5°	1967.5
35°	1020.5
37.5°	551.3
40°	501.8
42.5°	498.2
45°	493.4
47.5°	482.5
50°	464.4
52.5°	443.9
55°	422.2
57.5°	398.1
60°	370.3
62.5°	339.0
65°	306.4
67.5°	270.2
70°	234.0
72.5°	197.8
75°	164.1
77.5°	129.1
80°	97.7
82.5°	68.8
85°	39.8
87.5°	15.7
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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