

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: P755994

Luminaire Tested: LD4D90BD010-EU4DR7070959035-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755994
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-EU4DR7070959035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6848.0 lumens
Efficiency: N/A
Efficacy: 69.2 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

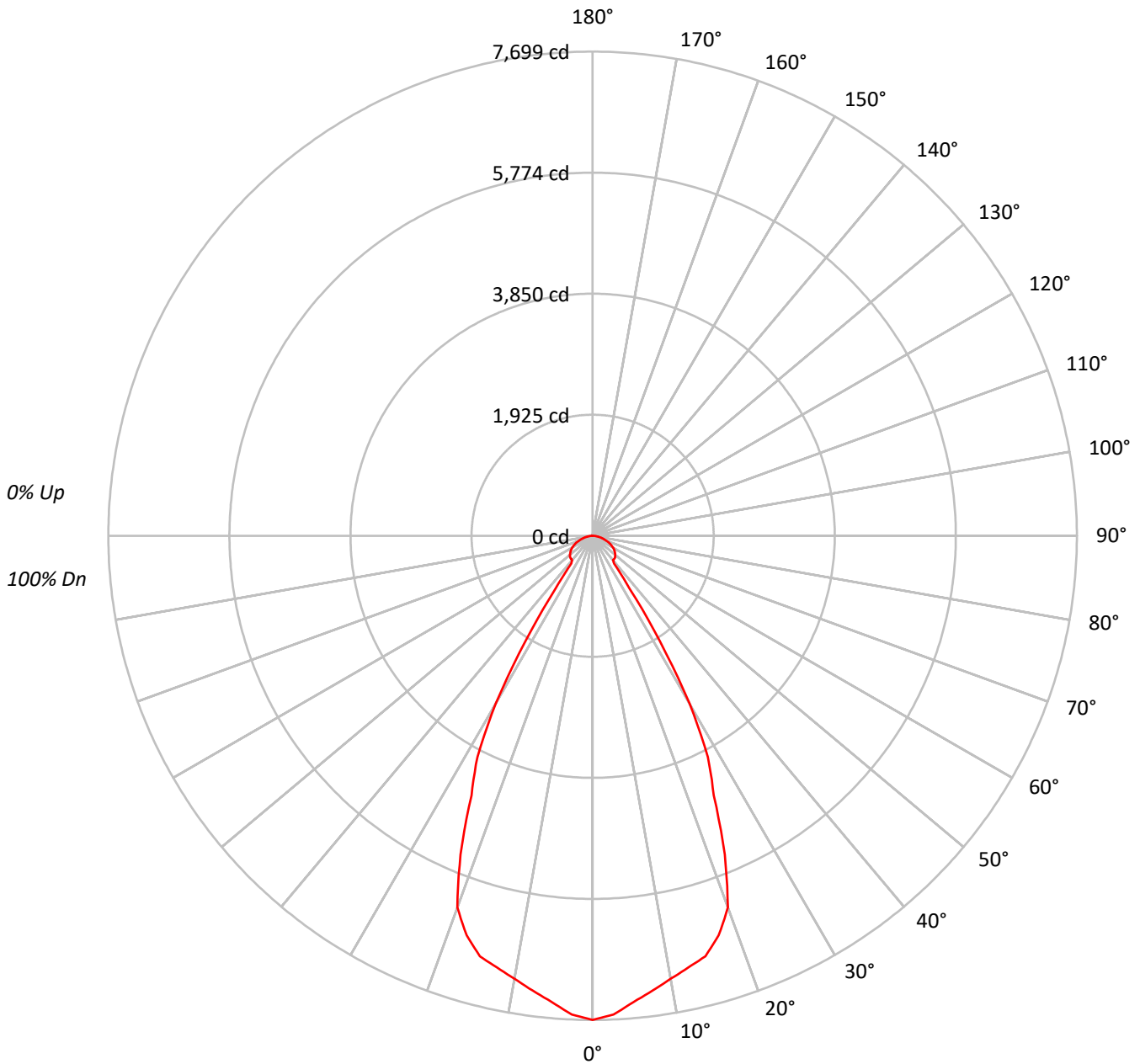
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	841220
5°	816225
10°	793477
15°	783062
20°	731217
25°	549325
30°	388331
35°	137558
40°	72328
45°	77043
50°	79771
55°	81282
60°	81771
65°	80042
70°	75552
75°	69993
80°	62103
85°	50396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 81808 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.9	10.3
10°-20°	1925.4	28.1
20°-30°	2120.5	31.0
30°-40°	810.2	11.8
40°-50°	382.6	5.6
50°-60°	380.3	5.6
60°-70°	304.5	4.4
70°-80°	175.0	2.6
80°-90°	47.6	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°	4747.9	69.3
0°-40°	5558.1	81.2
0°-60°	6321.0	92.3
0°-90°	6848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6848.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7699	
5°	7442	702
15°	6923	1925
25°	4557	2121
35°	1031	810
45°	499	383
55°	427	380
65°	310	304
75°	166	175
85°	40	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7699.2
2.5°	7618.8
5°	7442.0
7.5°	7294.5
10°	7151.9
12.5°	7031.2
15°	6922.7
17.5°	6660.6
20°	6288.8
22.5°	5486.7
25°	4556.6
27.5°	3966.6
30°	3078.0
32.5°	1988.2
35°	1031.3
37.5°	557.1
40°	507.1
42.5°	503.4
45°	498.6
47.5°	487.6
50°	469.3
52.5°	448.6
55°	426.7
57.5°	402.3
60°	374.2
62.5°	342.5
65°	309.6
67.5°	273.1
70°	236.5
72.5°	199.9
75°	165.8
77.5°	130.4
80°	98.7
82.5°	69.5
85°	40.2
87.5°	15.8
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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