

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: P756020

Luminaire Tested: LD4D90BD010-EU4DR7070959050-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P756020
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-EU4DR7070959050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7219.4 lumens
Efficiency: N/A
Efficacy: 73.0 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

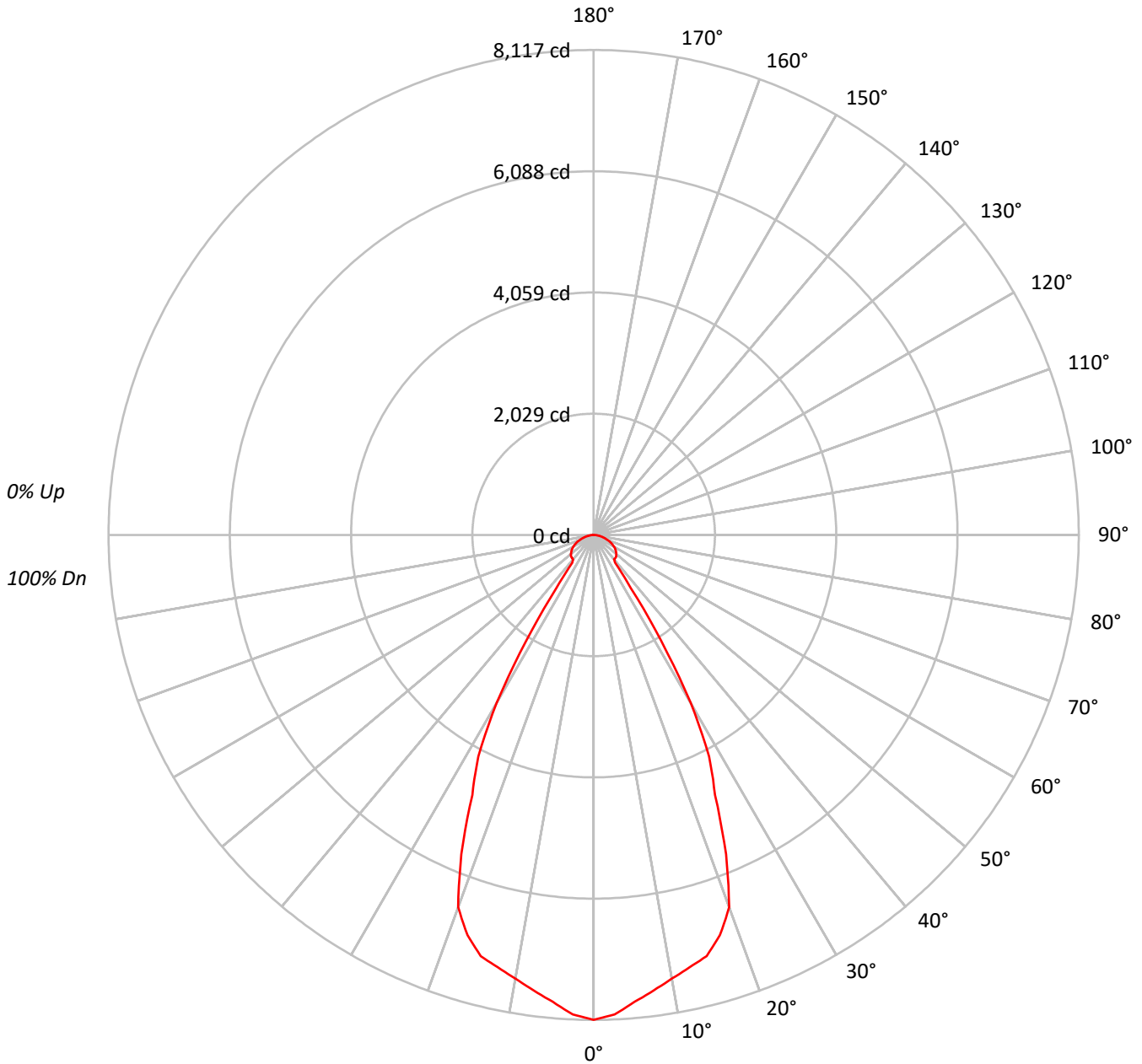
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	886837
5°	860491
10°	836502
15°	825525
20°	770877
25°	579114
30°	409388
35°	145014
40°	76250
45°	81215
50°	84106
55°	85683
60°	86207
65°	84385
70°	79641
75°	73792
80°	65501
85°	53154

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 86241 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.0	10.3
10°-20°	2029.8	28.1
20°-30°	2235.6	31.0
30°-40°	854.1	11.8
40°-50°	403.3	5.6
50°-60°	401.0	5.6
60°-70°	321.0	4.4
70°-80°	184.5	2.6
80°-90°	50.2	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°	5005.4	69.3
0°-40°	5859.5	81.2
0°-60°	6663.7	92.3
0°-90°	7219.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7219.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8117	
5°	7846	740
15°	7298	2030
25°	4804	2236
35°	1087	854
45°	526	403
55°	450	401
65°	326	321
75°	175	185
85°	42	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8116.7
2.5°	8031.9
5°	7845.6
7.5°	7690.1
10°	7539.7
12.5°	7412.5
15°	7298.1
17.5°	7021.8
20°	6629.9
22.5°	5784.3
25°	4803.7
27.5°	4181.7
30°	3244.9
32.5°	2096.0
35°	1087.2
37.5°	587.3
40°	534.6
42.5°	530.7
45°	525.6
47.5°	514.0
50°	494.8
52.5°	472.9
55°	449.8
57.5°	424.1
60°	394.5
62.5°	361.1
65°	326.4
67.5°	287.9
70°	249.3
72.5°	210.8
75°	174.8
77.5°	137.5
80°	104.1
82.5°	73.3
85°	42.4
87.5°	16.7
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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