

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: P754447

Luminaire Tested: LD4D80BD010-EU4DR7070959040-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754447
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: LD4D80BD010-EU4DR7070959040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6347.2 lumens
Efficiency: N/A
Efficacy: 80.4 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): 78.9
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

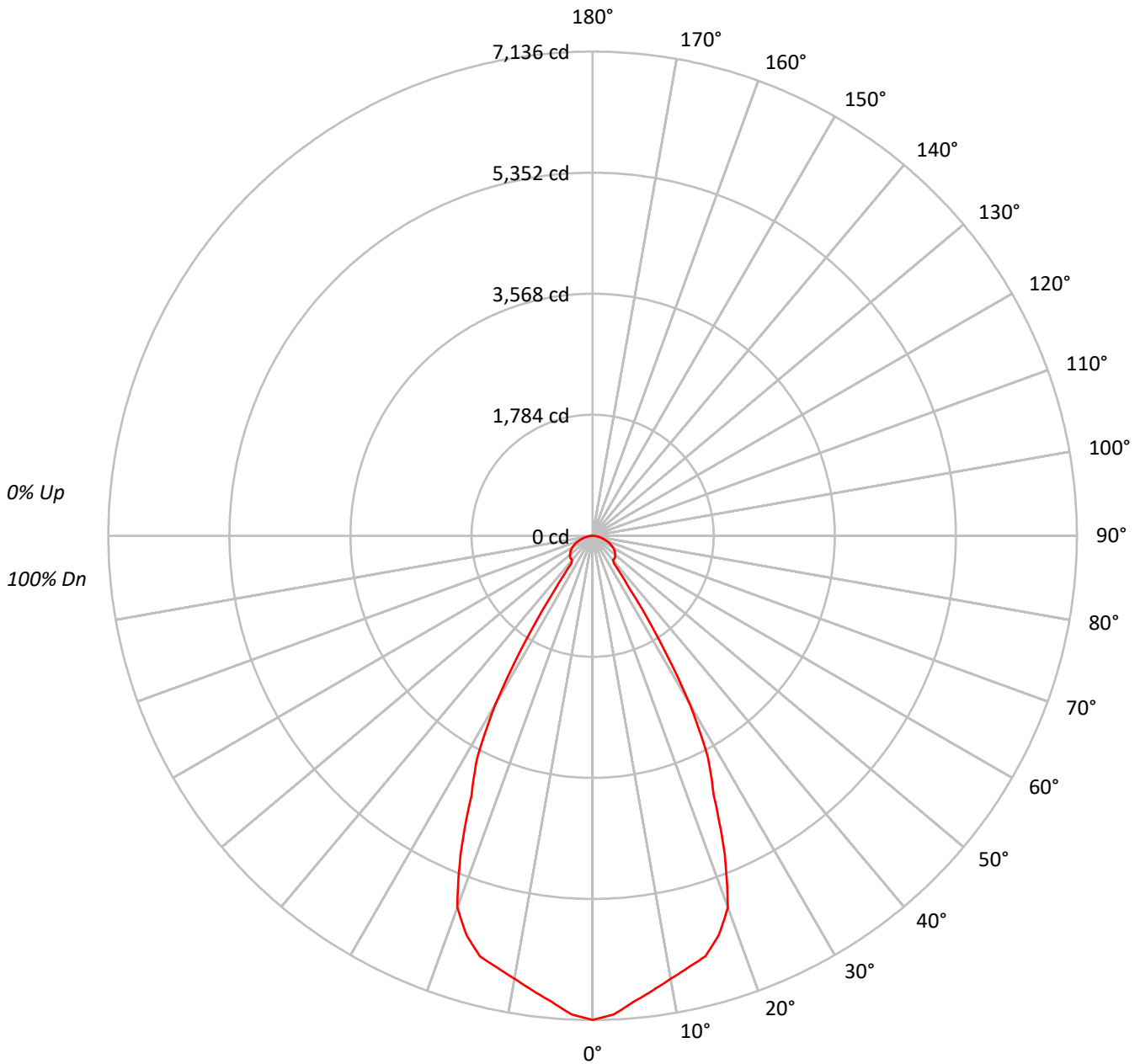


Downlight

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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°	779685
5°	756516
10°	735430
15°	725780
20°	677731
25°	509144
30°	359919
35°	127487
40°	67036
45°	71403
50°	73941
55°	75320
60°	75805
65°	74199
70°	70025
75°	64885
80°	57572
85°	46760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 75809 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.6	10.3
10°-20°	1784.6	28.1
20°-30°	1965.4	31.0
30°-40°	750.9	11.8
40°-50°	354.6	5.6
50°-60°	352.5	5.6
60°-70°	282.2	4.4
70°-80°	162.2	2.6
80°-90°	44.1	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°	4400.6	69.3
0°-40°	5151.5	81.2
0°-60°	5858.6	92.3
0°-90°	6347.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6347.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7136	
5°	6898	651
15°	6416	1785
25°	4223	1965
35°	956	751
45°	462	355
55°	395	352
65°	287	282
75°	154	162
85°	37	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7136.0
2.5°	7061.5
5°	6897.6
7.5°	6760.9
10°	6628.7
12.5°	6516.9
15°	6416.3
17.5°	6173.4
20°	5828.8
22.5°	5085.4
25°	4223.3
27.5°	3676.5
30°	2852.8
32.5°	1842.8
35°	955.8
37.5°	516.3
40°	470.0
42.5°	466.6
45°	462.1
47.5°	451.9
50°	435.0
52.5°	415.8
55°	395.4
57.5°	372.8
60°	346.9
62.5°	317.5
65°	287.0
67.5°	253.1
70°	219.2
72.5°	185.3
75°	153.7
77.5°	120.9
80°	91.5
82.5°	64.4
85°	37.3
87.5°	14.7
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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(END OF REPORT)