

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: P754291

Luminaire Tested: LD4D80BD010-EU4DR6070959040-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR6070959040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7311.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

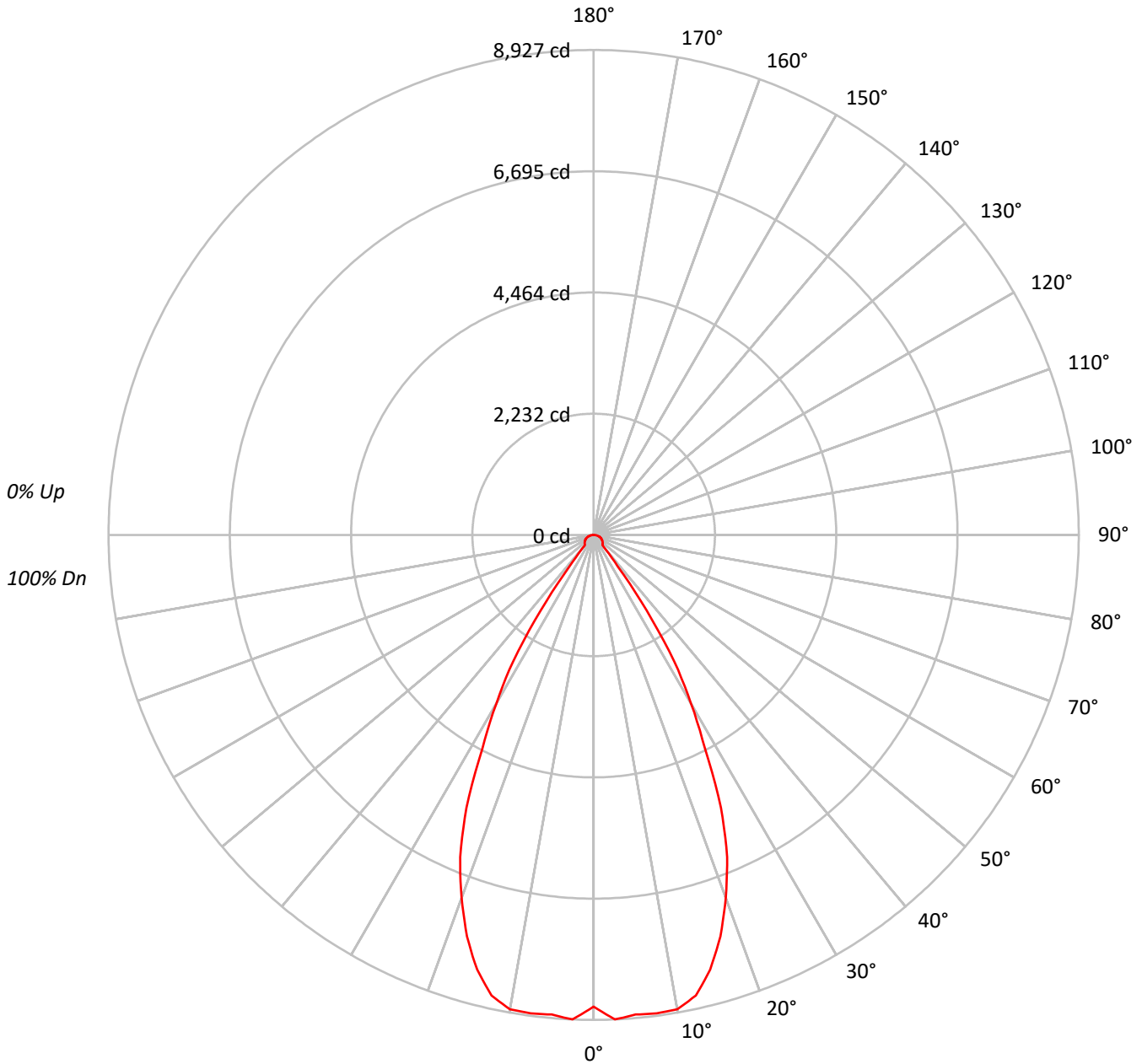
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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				100															
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93				93															
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86				86															
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80				80															
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75				75															
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70				70															
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66				66															
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62				62															
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59				59															
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55				55															
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53				53															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	948689
5°	972011
10°	983761
15°	937158
20°	826281
25°	668326
30°	452069
35°	226537
40°	36741
45°	35972
50°	36682
55°	37241
60°	38263
65°	39142
70°	40060
75°	40527
80°	39074
85°	32594

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 40527 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	847.0	11.6
10°-20°	2291.7	31.3
20°-30°	2465.7	33.7
30°-40°	1071.8	14.7
40°-50°	180.0	2.5
50°-60°	175.0	2.4
60°-70°	149.7	2.0
70°-80°	100.1	1.4
80°-90°	30.0	0.4
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°	5604.4	76.7
0°-40°	6676.1	91.3
0°-60°	7031.2	96.2
0°-90°	7311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7311.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8683	
5°	8862	847
15°	8285	2292
25°	5544	2466
35°	1698	1072
45°	233	180
55°	196	175
65°	151	150
75°	96	100
85°	26	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8682.8
2.5°	8926.8
5°	8862.4
7.5°	8882.8
10°	8867.0
12.5°	8683.9
15°	8285.0
17.5°	7749.4
20°	7106.4
22.5°	6418.3
25°	5543.7
27.5°	4434.0
30°	3583.2
32.5°	2761.7
35°	1698.4
37.5°	726.6
40°	257.6
42.5°	237.3
45°	232.8
47.5°	224.9
50°	215.8
52.5°	205.7
55°	195.5
57.5°	185.3
60°	175.1
62.5°	163.8
65°	151.4
67.5°	139.0
70°	125.4
72.5°	110.7
75°	96.0
77.5°	79.1
80°	62.1
82.5°	44.1
85°	26.0
87.5°	9.0
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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