

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: P754289

Luminaire Tested: LD4D80BD010-EU4DR6070959040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754289
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-EU4DR6070959040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8073.0 lumens
Efficiency: N/A
Efficacy: 102.3 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

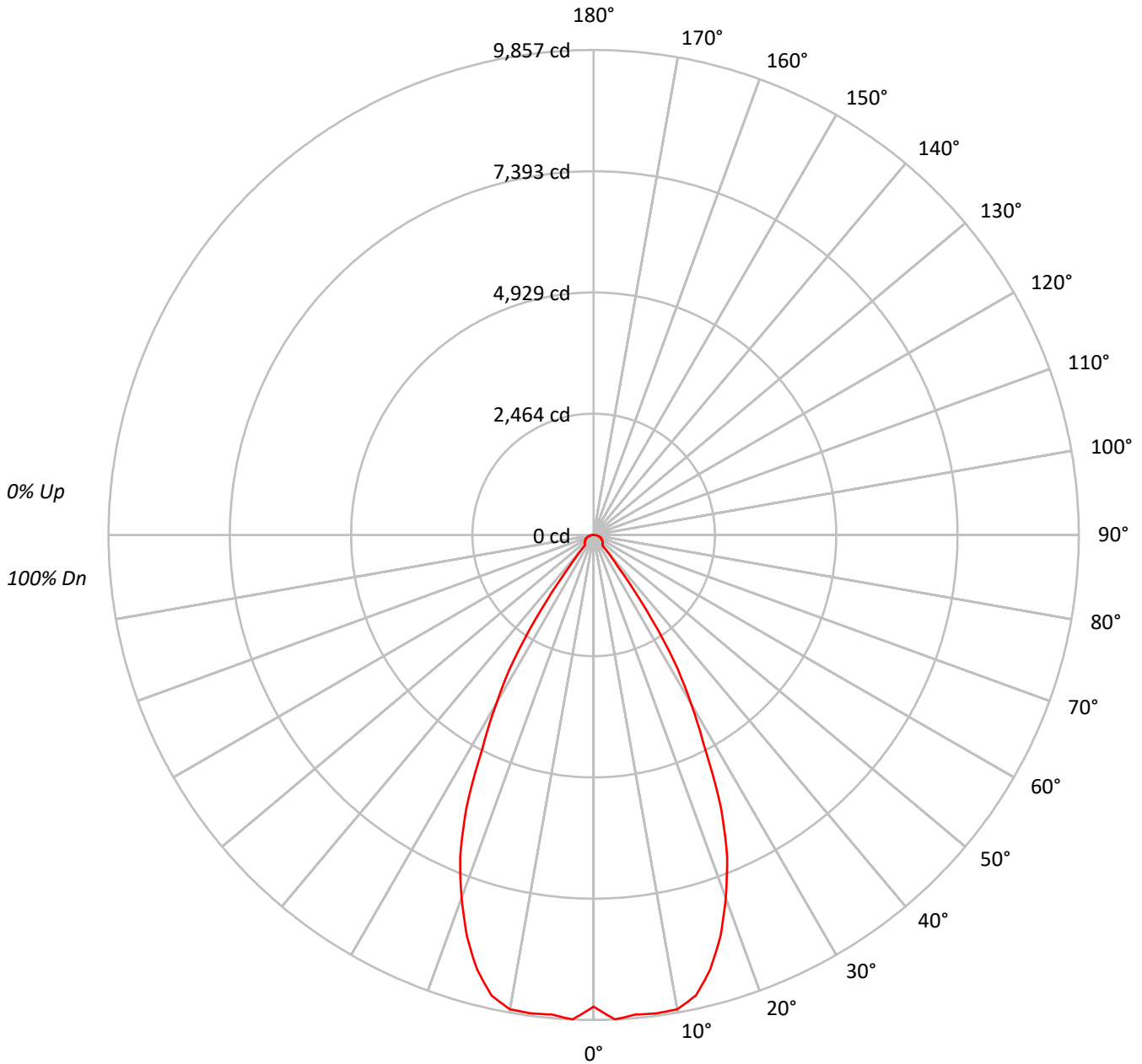
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1047570
5°	1073321
10°	1086286
15°	1034833
20°	912405
25°	737983
30°	499178
35°	250146
40°	40578
45°	39711
50°	40506
55°	41127
60°	42262
65°	43227
70°	44245
75°	44790
80°	43164
85°	35979

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 44790 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	935.3	11.6
10°-20°	2530.5	31.3
20°-30°	2722.7	33.7
30°-40°	1183.5	14.7
40°-50°	198.8	2.5
50°-60°	193.3	2.4
60°-70°	165.3	2.0
70°-80°	110.6	1.4
80°-90°	33.1	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°	6188.5	76.7
0°-40°	7372.0	91.3
0°-60°	7764.0	96.2
0°-90°	8073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8073.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9588	
5°	9786	935
15°	9148	2531
25°	6122	2723
35°	1875	1183
45°	257	199
55°	216	193
65°	167	165
75°	106	111
85°	29	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9587.8
2.5°	9857.3
5°	9786.1
7.5°	9808.6
10°	9791.1
12.5°	9589.0
15°	9148.5
17.5°	8557.1
20°	7847.1
22.5°	7087.3
25°	6121.5
27.5°	4896.2
30°	3956.6
32.5°	3049.5
35°	1875.4
37.5°	802.3
40°	284.5
42.5°	262.0
45°	257.0
47.5°	248.3
50°	238.3
52.5°	227.1
55°	215.9
57.5°	204.6
60°	193.4
62.5°	180.9
65°	167.2
67.5°	153.5
70°	138.5
72.5°	122.3
75°	106.1
77.5°	87.3
80°	68.6
82.5°	48.7
85°	28.7
87.5°	10.0
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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