

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: P754458

Luminaire Tested: LD4D80BD010-EU4DR7070959050-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754458
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-EU4DR7070959050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8184.0 lumens
Efficiency: N/A
Efficacy: 103.7 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

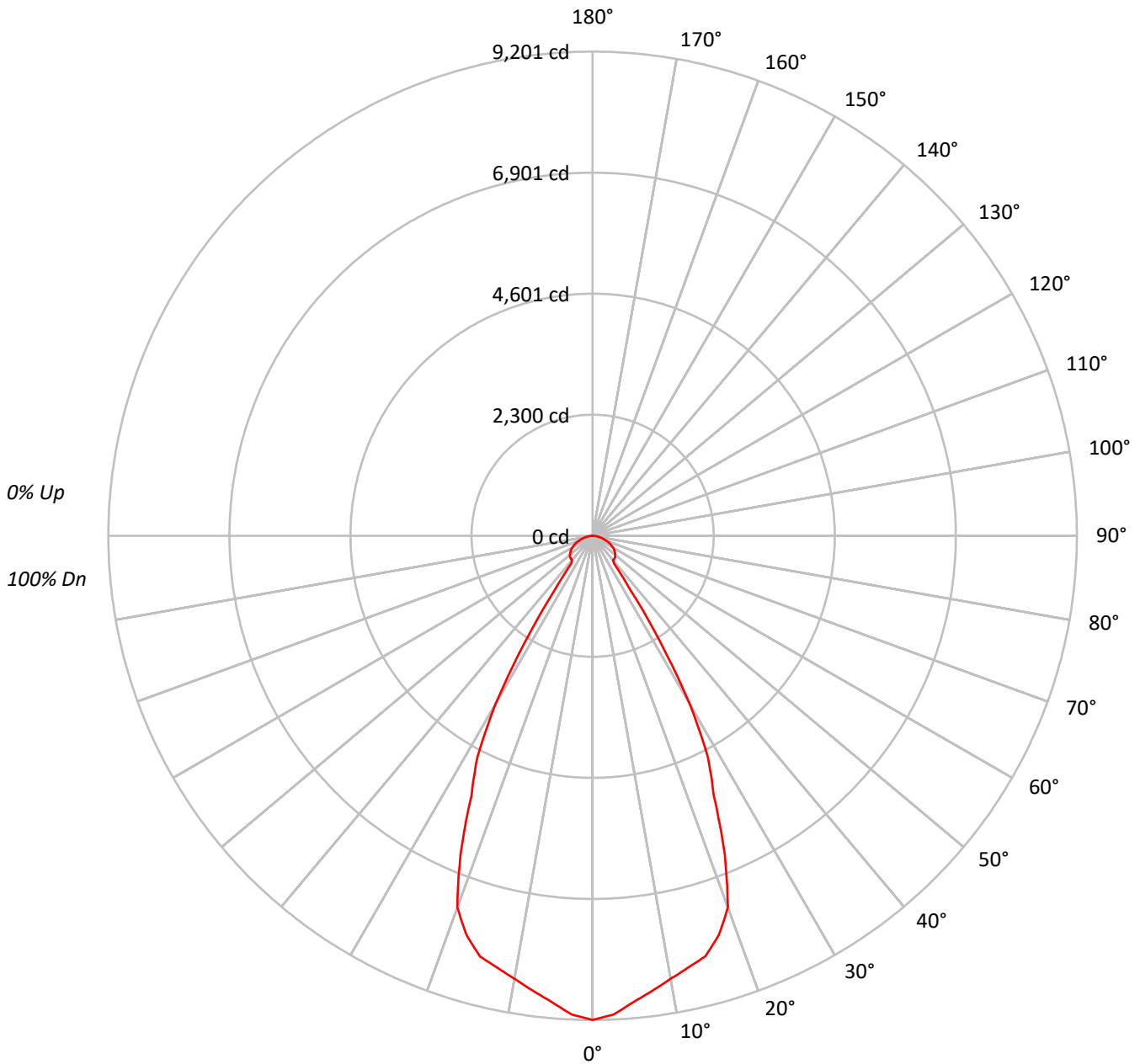
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	1005330
5°	975455
10°	948269
15°	935823
20°	873872
25°	656487
30°	464080
35°	164394
40°	86434
45°	92062
50°	95342
55°	97131
60°	97723
65°	95657
70°	90279
75°	83628
80°	74246
85°	60299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 97751 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.9	10.3
10°-20°	2301.0	28.1
20°-30°	2534.2	31.0
30°-40°	968.3	11.8
40°-50°	457.2	5.6
50°-60°	454.5	5.6
60°-70°	363.9	4.4
70°-80°	209.1	2.6
80°-90°	56.8	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°	5674.1	69.3
0°-40°	6642.4	81.2
0°-60°	7554.1	92.3
0°-90°	8184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8184.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9201	
5°	8894	839
15°	8273	2301
25°	5446	2534
35°	1232	968
45°	596	457
55°	510	455
65°	370	364
75°	198	209
85°	48	57
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9201.2
2.5°	9105.0
5°	8893.8
7.5°	8717.5
10°	8547.1
12.5°	8402.9
15°	8273.2
17.5°	7960.0
20°	7515.7
22.5°	6557.1
25°	5445.5
27.5°	4740.5
30°	3678.4
32.5°	2376.1
35°	1232.5
37.5°	665.8
40°	606.0
42.5°	601.7
45°	595.8
47.5°	582.7
50°	560.9
52.5°	536.1
55°	509.9
57.5°	480.7
60°	447.2
62.5°	409.4
65°	370.0
67.5°	326.3
70°	282.6
72.5°	238.9
75°	198.1
77.5°	155.9
80°	118.0
82.5°	83.0
85°	48.1
87.5°	18.9
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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