

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: P754419

Luminaire Tested: LD4D80BD010-EU4DR7070959030-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754419
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-EU4DR7070959030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7682.1 lumens
Efficiency: N/A
Efficacy: 97.4 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

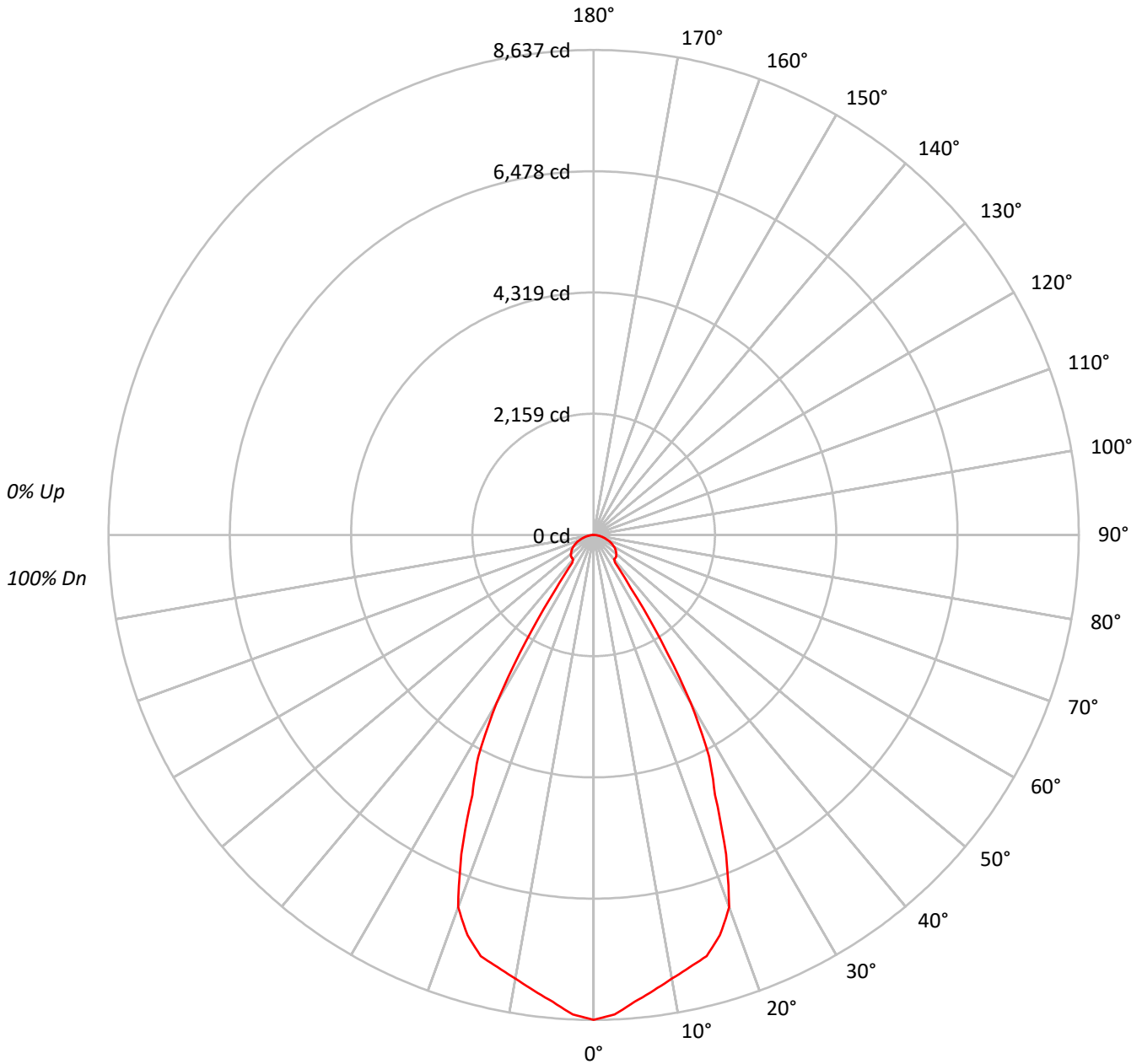
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	943674
5°	915637
10°	890111
15°	878429
20°	820282
25°	616234
30°	435630
35°	154311
40°	81142
45°	86422
50°	89494
55°	91169
60°	91735
65°	89789
70°	84752
75°	78520
80°	69716
85°	56539

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 91773 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	787.4	10.3
10°-20°	2159.9	28.1
20°-30°	2378.8	31.0
30°-40°	908.9	11.8
40°-50°	429.2	5.6
50°-60°	426.6	5.6
60°-70°	341.6	4.4
70°-80°	196.3	2.6
80°-90°	53.4	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°	5326.1	69.3
0°-40°	6235.0	81.2
0°-60°	7090.8	92.3
0°-90°	7682.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7682.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8637	
5°	8348	787
15°	7766	2160
25°	5112	2379
35°	1157	909
45°	559	429
55°	479	427
65°	347	342
75°	186	196
85°	45	53
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8636.9
2.5°	8546.7
5°	8348.4
7.5°	8182.9
10°	8022.9
12.5°	7887.5
15°	7765.8
17.5°	7471.8
20°	7054.8
22.5°	6155.0
25°	5111.6
27.5°	4449.7
30°	3452.9
32.5°	2230.3
35°	1156.9
37.5°	624.9
40°	568.9
42.5°	564.8
45°	559.3
47.5°	547.0
50°	526.5
52.5°	503.2
55°	478.6
57.5°	451.3
60°	419.8
62.5°	384.3
65°	347.3
67.5°	306.3
70°	265.3
72.5°	224.3
75°	186.0
77.5°	146.3
80°	110.8
82.5°	77.9
85°	45.1
87.5°	17.8
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)