

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: P755797

Luminaire Tested: LD4D90BD010-EU4DR6070959024-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755797
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: LD4D90BD010-EU4DR6070959024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7385.8 lumens
Efficiency: N/A
Efficacy: 74.7 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

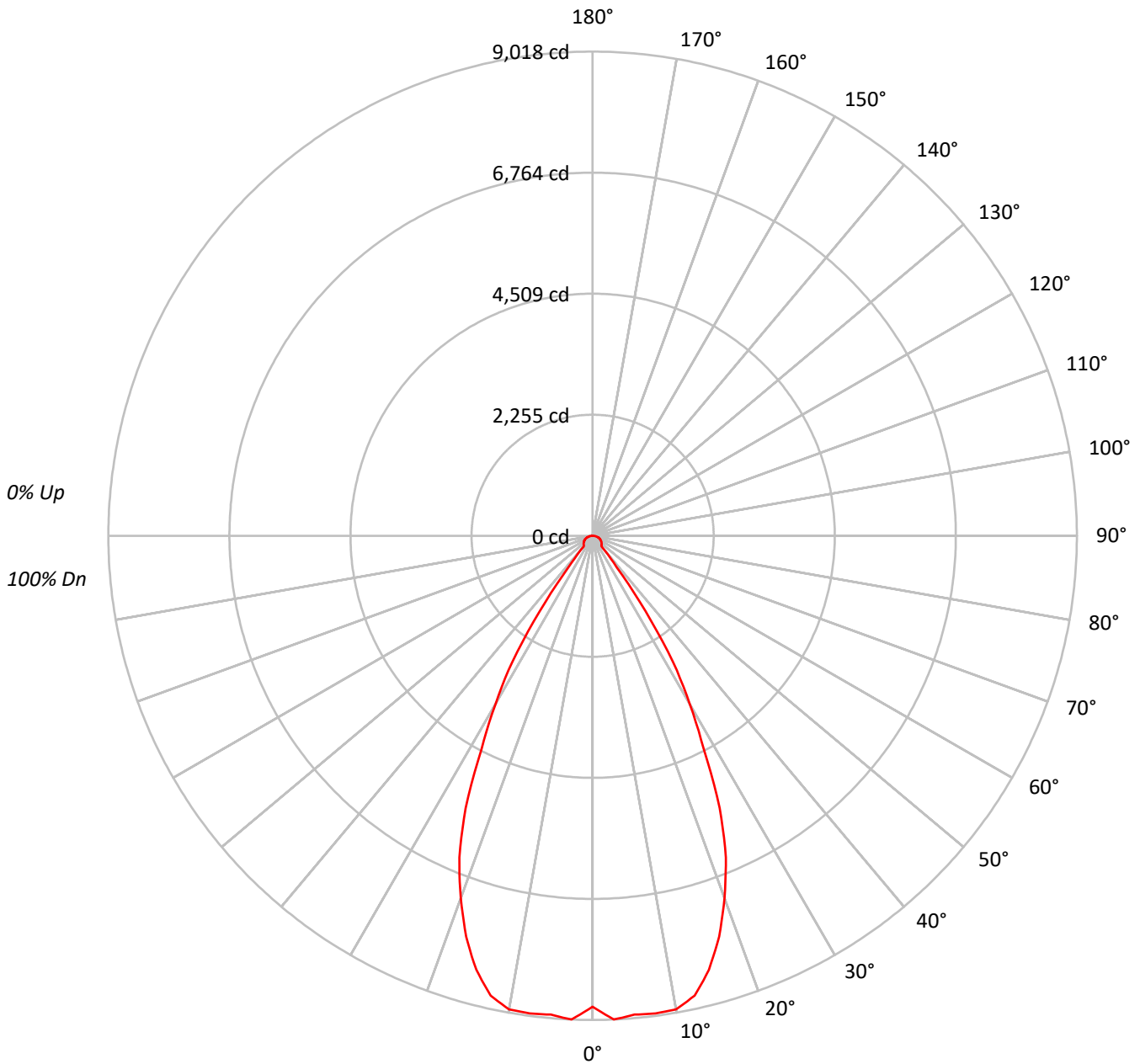
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	958392
5°	981970
10°	993823
15°	946750
20°	834746
25°	675161
30°	456686
35°	228845
40°	37127
45°	36343
50°	37056
55°	37622
60°	38656
65°	39556
70°	40475
75°	40949
80°	39514
85°	32970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 40949 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	855.7	11.6
10°-20°	2315.1	31.3
20°-30°	2490.9	33.7
30°-40°	1082.7	14.7
40°-50°	181.9	2.5
50°-60°	176.8	2.4
60°-70°	151.2	2.0
70°-80°	101.2	1.4
80°-90°	30.3	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°	5661.7	76.7
0°-40°	6744.4	91.3
0°-60°	7103.1	96.2
0°-90°	7385.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7385.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8772	
5°	8953	856
15°	8370	2315
25°	5600	2491
35°	1716	1083
45°	235	182
55°	198	177
65°	153	151
75°	97	101
85°	26	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8771.6
2.5°	9018.2
5°	8953.2
7.5°	8973.7
10°	8957.7
12.5°	8772.8
15°	8369.8
17.5°	7828.7
20°	7179.2
22.5°	6484.0
25°	5600.4
27.5°	4479.4
30°	3619.8
32.5°	2789.9
35°	1715.7
37.5°	734.0
40°	260.3
42.5°	239.7
45°	235.2
47.5°	227.2
50°	218.0
52.5°	207.8
55°	197.5
57.5°	187.2
60°	176.9
62.5°	165.5
65°	153.0
67.5°	140.4
70°	126.7
72.5°	111.9
75°	97.0
77.5°	79.9
80°	62.8
82.5°	44.5
85°	26.3
87.5°	9.1
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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