

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: P755523

Luminaire Tested: LD4D90BD010-EU4DR4070959035-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR4070959035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8080.7 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

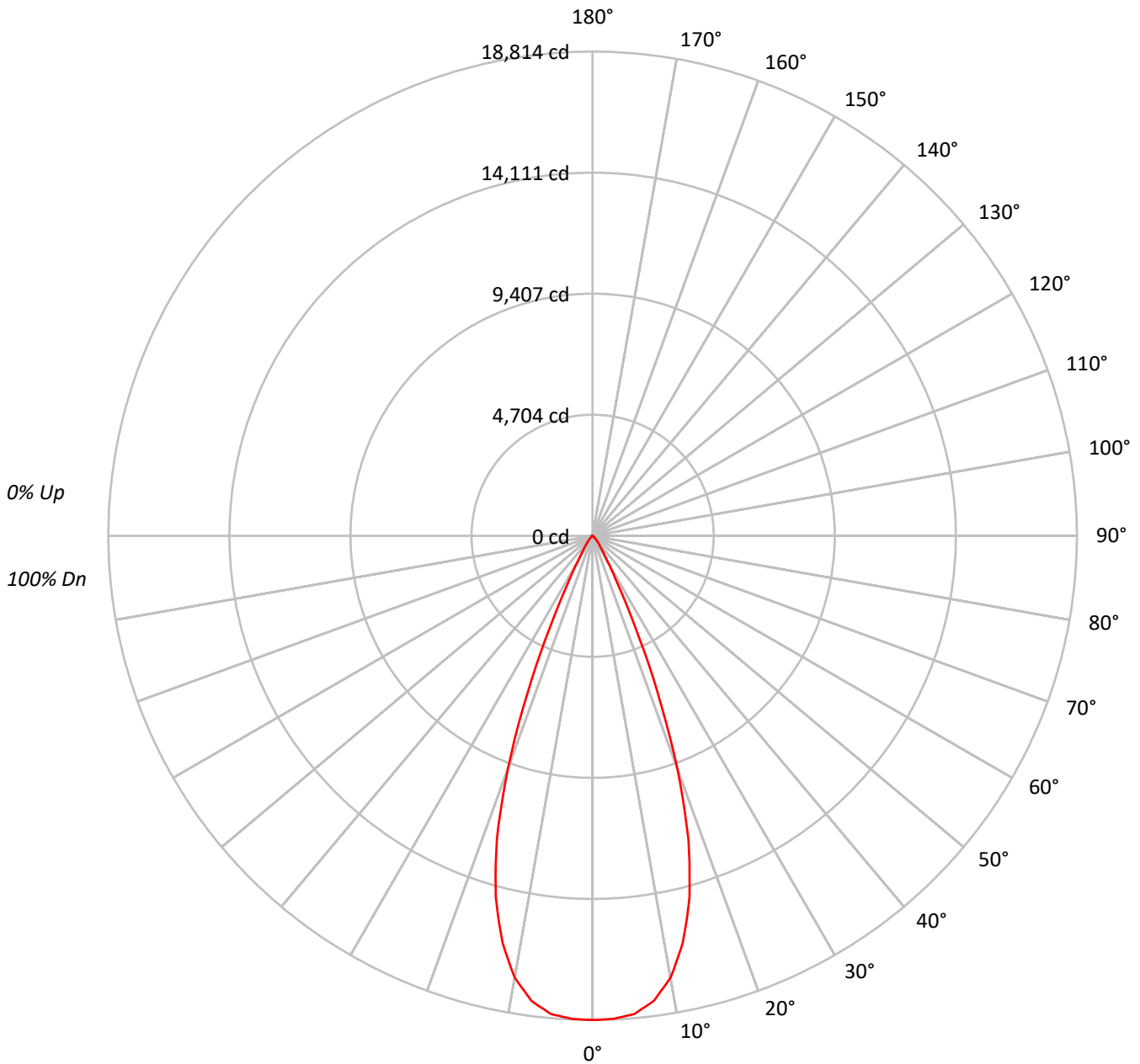
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96																											
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92																											
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88																											
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84																											
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81																											
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77																											
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74																											
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72																											
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69																											
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2055621
5°	2045628
10°	1933572
15°	1643777
20°	1120359
25°	467456
30°	146980
35°	68319
40°	37783
45°	17321
50°	8414
55°	4610
60°	2404
65°	853
70°	351
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17321 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1741.6	21.6
10°-20°	3901.6	48.3
20°-30°	1953.0	24.2
30°-40°	358.0	4.4
40°-50°	98.8	1.2
50°-60°	23.2	0.3
60°-70°	4.4	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	7596.1	94.0
0°-40°	7954.1	98.4
0°-60°	8076.1	99.9
0°-90°	8080.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8080.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18814	
5°	18651	###
15°	14532	3902
25°	3878	1953
35°	512	358
45°	112	99
55°	24	23
65°	3	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	18813.9
2.5°	18786.4
5°	18651.2
7.5°	18220.4
10°	17428.0
12.5°	16192.6
15°	14531.9
17.5°	12372.2
20°	9635.6
22.5°	6569.1
25°	3877.5
27.5°	2049.8
30°	1165.0
32.5°	752.9
35°	512.2
37.5°	366.0
40°	264.9
42.5°	181.3
45°	112.1
47.5°	71.4
50°	49.5
52.5°	35.2
55°	24.2
57.5°	15.4
60°	11.0
62.5°	6.6
65°	3.3
67.5°	2.2
70°	1.1
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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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