

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P755620

Luminaire Tested: LD4D90BD010-EU4DR4570959040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR4570959040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10291.8 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

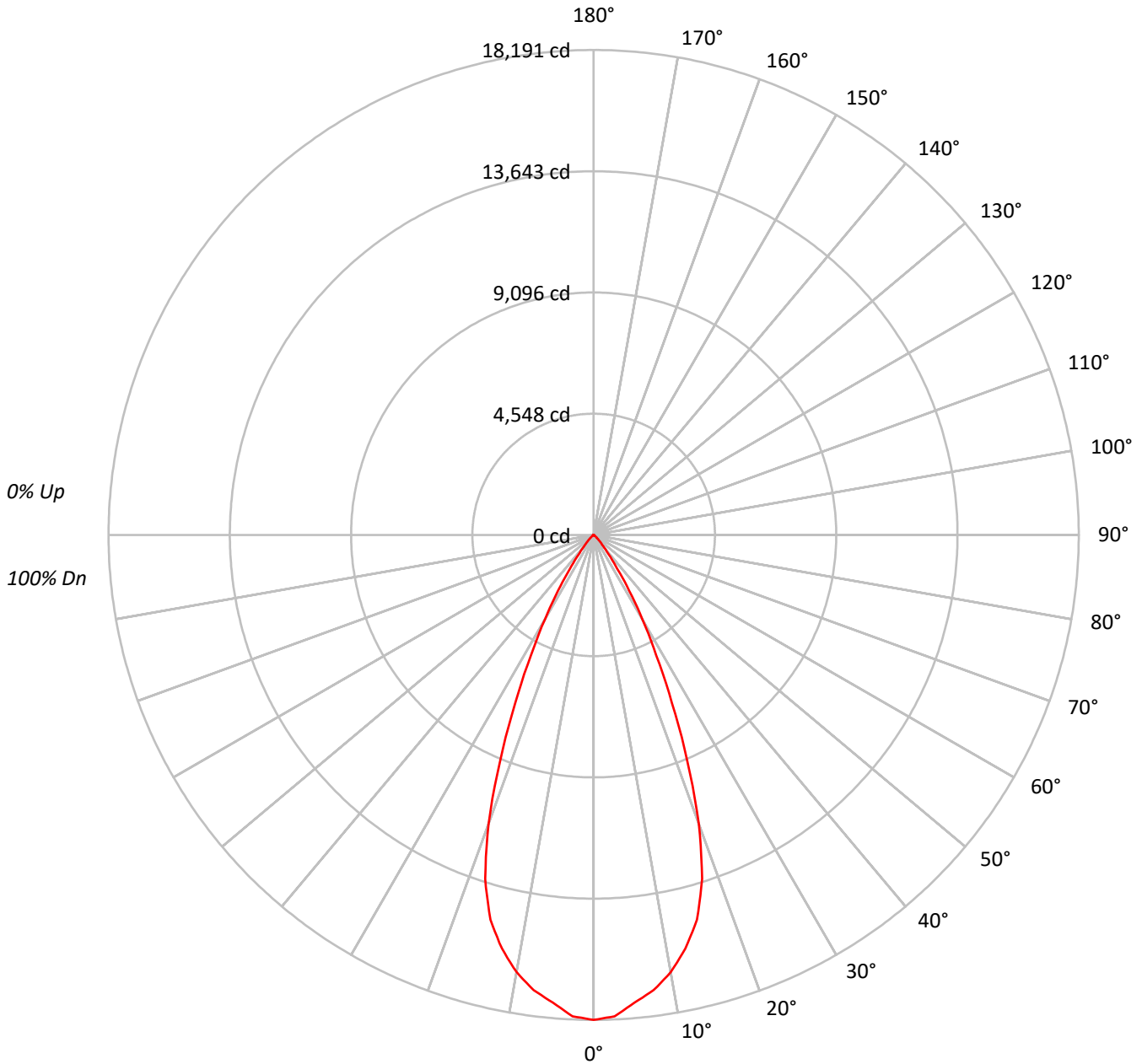
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95						95													
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90						90													
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85						85													
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81						81													
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77						77													
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73						73													
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69						69													
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66						66													
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63						63													
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60						60													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1987573
5°	1930982
10°	1847433
15°	1690787
20°	1341382
25°	837442
30°	461569
35°	207250
40°	81627
45°	38475
50°	18239
55°	9544
60°	4698
65°	1112
70°	447
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 38475 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1654.2	16.1
10°-20°	4071.3	39.6
20°-30°	3224.1	31.3
30°-40°	1073.6	10.4
40°-50°	213.1	2.1
50°-60°	48.4	0.5
60°-70°	7.0	0.1
70°-80°	0.2	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°	8949.6	87.0
0°-40°	10023.2	97.4
0°-60°	10284.7	99.9
0°-90°	10291.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10291.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18191	
5°	17606	###
15°	14948	4071
25°	6946	3224
35°	1554	1074
45°	249	213
55°	50	48
65°	4	7
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	18191.1
2.5°	18072.4
5°	17605.9
7.5°	17221.1
10°	16651.6
12.5°	15893.3
15°	14947.5
17.5°	13525.3
20°	11536.5
22.5°	9167.1
25°	6946.5
27.5°	5086.5
30°	3658.5
32.5°	2488.2
35°	1553.8
37.5°	921.4
40°	572.3
42.5°	376.3
45°	249.0
47.5°	160.2
50°	107.3
52.5°	71.5
55°	50.1
57.5°	32.9
60°	21.5
62.5°	11.4
65°	4.3
67.5°	1.4
70°	1.4
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

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)