

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: P749182

Luminaire Tested: LD4D50D010-EU4DR3540509027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR3540509027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4207.5 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

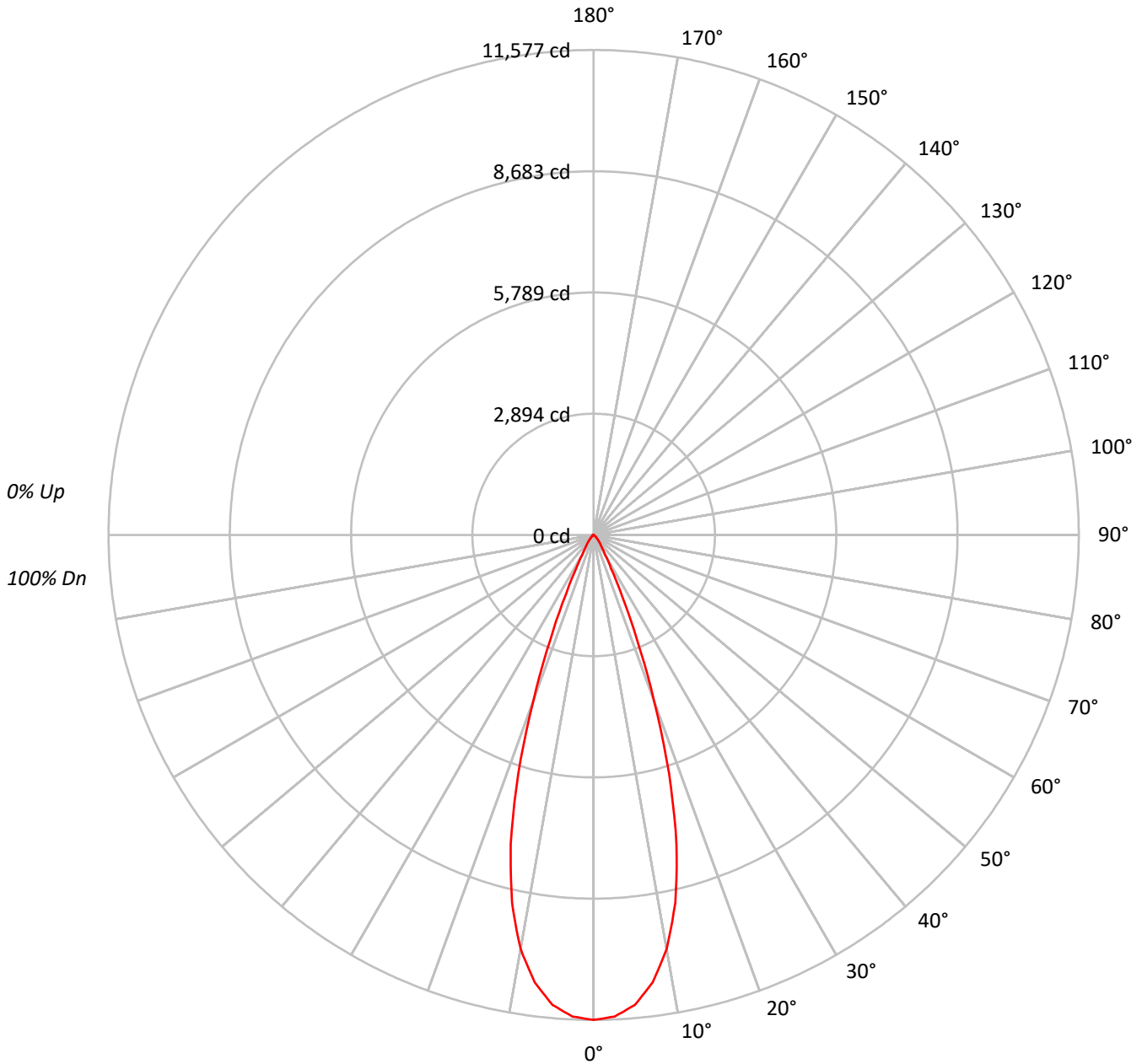
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1264901
5°	1235184
10°	1113224
15°	864041
20°	490067
25°	190659
30°	71131
35°	38988
40°	25488
45°	15514
50°	9876
55°	6972
60°	5113
65°	2766
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15514 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1035.8	24.6
10°-20°	2022.3	48.1
20°-30°	824.7	19.6
30°-40°	197.4	4.7
40°-50°	82.2	2.0
50°-60°	34.1	0.8
60°-70°	10.6	0.3
70°-80°	0.2	0.0
80°-90°	0.2	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°	3882.8	92.3
0°-40°	4080.1	97.0
0°-60°	4196.4	99.7
0°-90°	4207.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4207.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11577	
5°	11262	###
15°	7639	2022
25°	1582	825
35°	292	197
45°	100	82
55°	37	34
65°	11	11
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	11576.9
2.5°	11507.5
5°	11261.9
7.5°	10771.9
10°	10033.9
12.5°	8994.7
15°	7638.6
17.5°	5980.1
20°	4214.8
22.5°	2687.6
25°	1581.5
27.5°	894.0
30°	563.8
32.5°	395.9
35°	292.3
37.5°	226.0
40°	178.7
42.5°	137.6
45°	100.4
47.5°	75.1
50°	58.1
52.5°	46.1
55°	36.6
57.5°	29.7
60°	23.4
62.5°	17.0
65°	10.7
67.5°	3.8
70°	0.6
72.5°	0.6
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.6
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)