

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: P749313

Luminaire Tested: LD4D50D010-EU4DR4040509050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749313
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: LD4D50D010-EU4DR4040509050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5320.5 lumens
Efficiency: N/A
Efficacy: 113.2 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

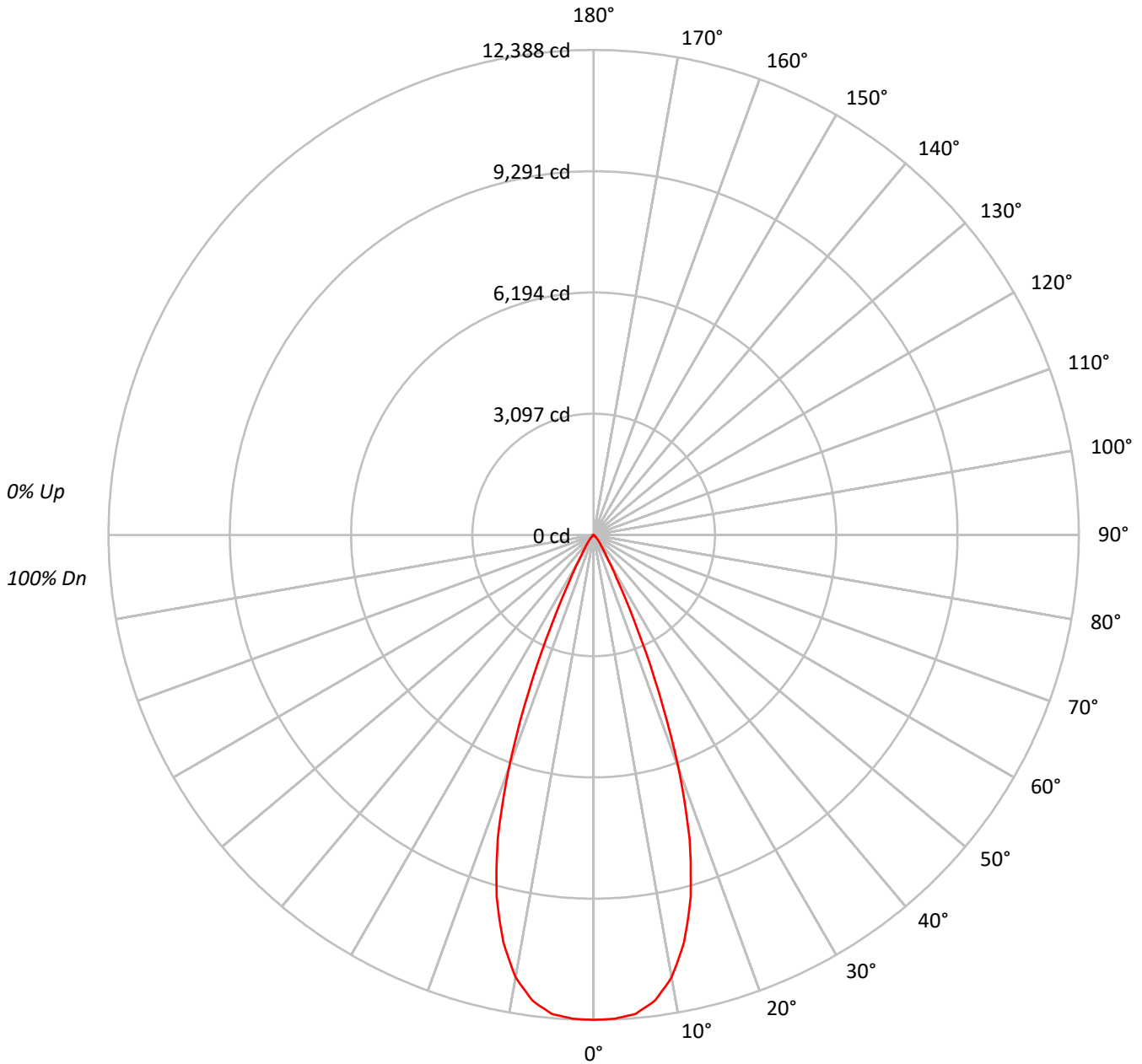
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									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	102	100	100	100	100	99	98	97	96	96	96	96															
	1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85															
	2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92	91	90	89	88	87	86	85	84	83	82	81															
	3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88	87	86	85	84	83	82	81	80	79	78	77															
	4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84	83	82	81	80	79	78	77	76	75	74	73															
	5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81	80	79	78	77	76	75	74	73	72	71	70															
	6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	78	77	76	75	74	73	72	71	70	69	68																
	7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	75	74	73	72	71	70	69	68	67	66	65	64															
	8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72	71	70	69	68	67	66	65	64	63	62	61															
	9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	72	70	69	68	67	66	65	64	63	62	61	60	59	58															
	10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67	66	65	64	63	62	61	60	59	58	57	56															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1353479
5°	1346902
10°	1273120
15°	1082319
20°	737670
25°	307791
30°	96780
35°	44977
40°	24875
45°	11403
50°	5541
55°	3029
60°	1573
65°	569
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11403 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1146.7	21.6
10°-20°	2568.9	48.3
20°-30°	1285.9	24.2
30°-40°	235.7	4.4
40°-50°	65.0	1.2
50°-60°	15.3	0.3
60°-70°	2.9	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°	5001.5	94.0
0°-40°	5237.2	98.4
0°-60°	5317.5	99.9
0°-90°	5320.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5320.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12388	
5°	12280	###
15°	9568	2569
25°	2553	1286
35°	337	236
45°	74	65
55°	16	15
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12387.6
2.5°	12369.5
5°	12280.5
7.5°	11996.9
10°	11475.1
12.5°	10661.7
15°	9568.3
17.5°	8146.3
20°	6344.3
22.5°	4325.3
25°	2553.1
27.5°	1349.6
30°	767.1
32.5°	495.7
35°	337.2
37.5°	241.0
40°	174.4
42.5°	119.4
45°	73.8
47.5°	47.0
50°	32.6
52.5°	23.2
55°	15.9
57.5°	10.1
60°	7.2
62.5°	4.3
65°	2.2
67.5°	1.4
70°	0.7
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)