

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: P749740

Luminaire Tested: LD4D50D010-EU4DR7040509030-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR7040509030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5129.3 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

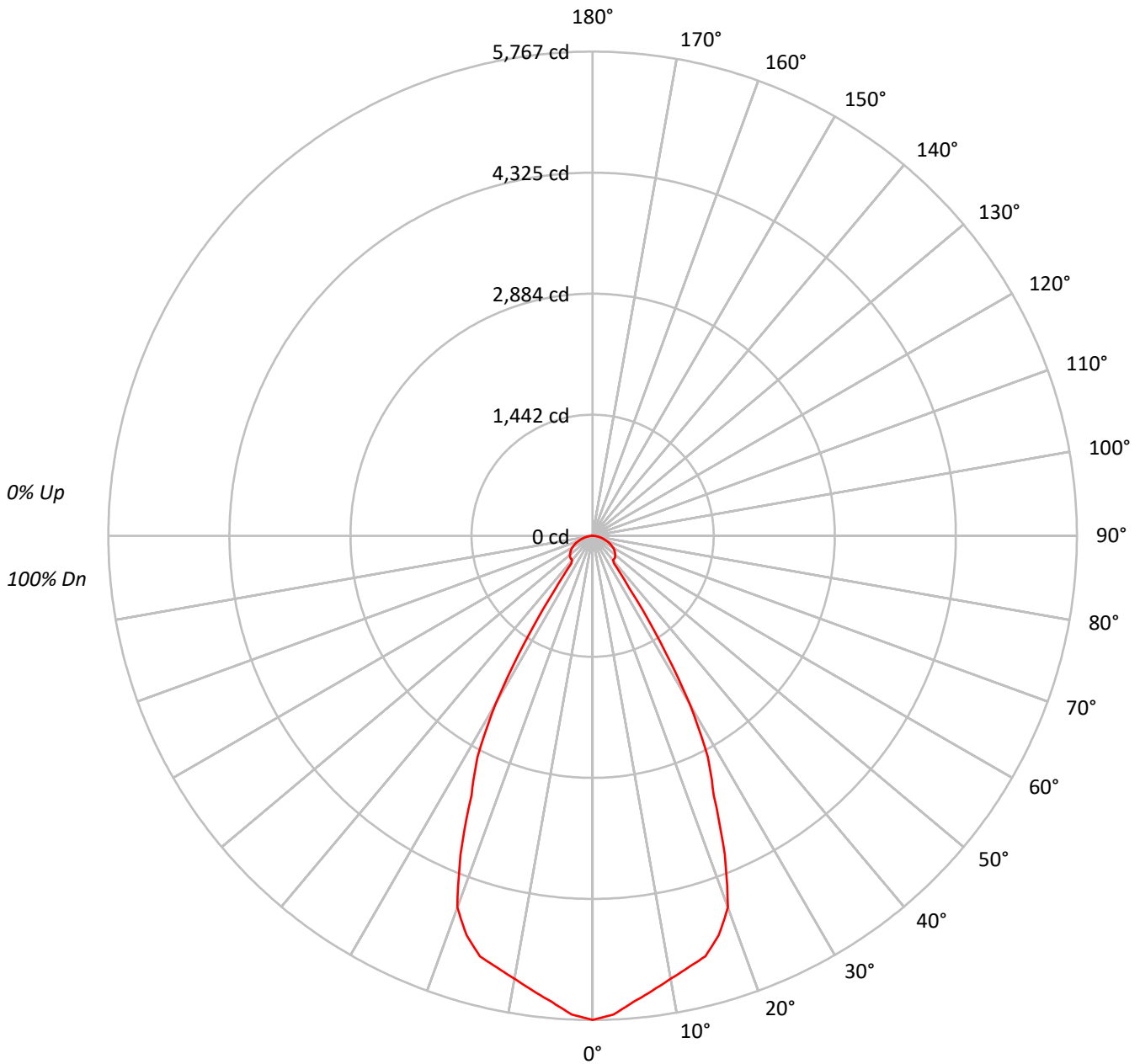
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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				70				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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	630085
5°	611357
10°	594317
15°	586524
20°	547692
25°	411457
30°	290857
35°	103025
40°	54171
45°	57697
50°	59748
55°	60881
60°	61252
65°	59954
70°	56576
75°	52431
80°	46561
85°	37734

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 61270 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.8	10.3
10°-20°	1442.1	28.1
20°-30°	1588.3	31.0
30°-40°	606.9	11.8
40°-50°	286.5	5.6
50°-60°	284.9	5.6
60°-70°	228.1	4.4
70°-80°	131.1	2.6
80°-90°	35.6	0.7
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°	3556.2	69.3
0°-40°	4163.1	81.2
0°-60°	4734.5	92.3
0°-90°	5129.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5129.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5767	
5°	5574	526
15°	5185	1442
25°	3413	1588
35°	772	607
45°	373	287
55°	320	285
65°	232	228
75°	124	131
85°	30	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5766.8
2.5°	5706.5
5°	5574.1
7.5°	5463.7
10°	5356.8
12.5°	5266.4
15°	5185.2
17.5°	4988.9
20°	4710.4
22.5°	4109.6
25°	3413.0
27.5°	2971.0
30°	2305.4
32.5°	1489.2
35°	772.4
37.5°	417.3
40°	379.8
42.5°	377.1
45°	373.4
47.5°	365.2
50°	351.5
52.5°	336.0
55°	319.6
57.5°	301.3
60°	280.3
62.5°	256.6
65°	231.9
67.5°	204.5
70°	177.1
72.5°	149.7
75°	124.2
77.5°	97.7
80°	74.0
82.5°	52.0
85°	30.1
87.5°	11.9
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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(END OF REPORT)