

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: P749558

Luminaire Tested: LD4D50D010-EU4DR6040509024-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR6040509024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4366.6 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

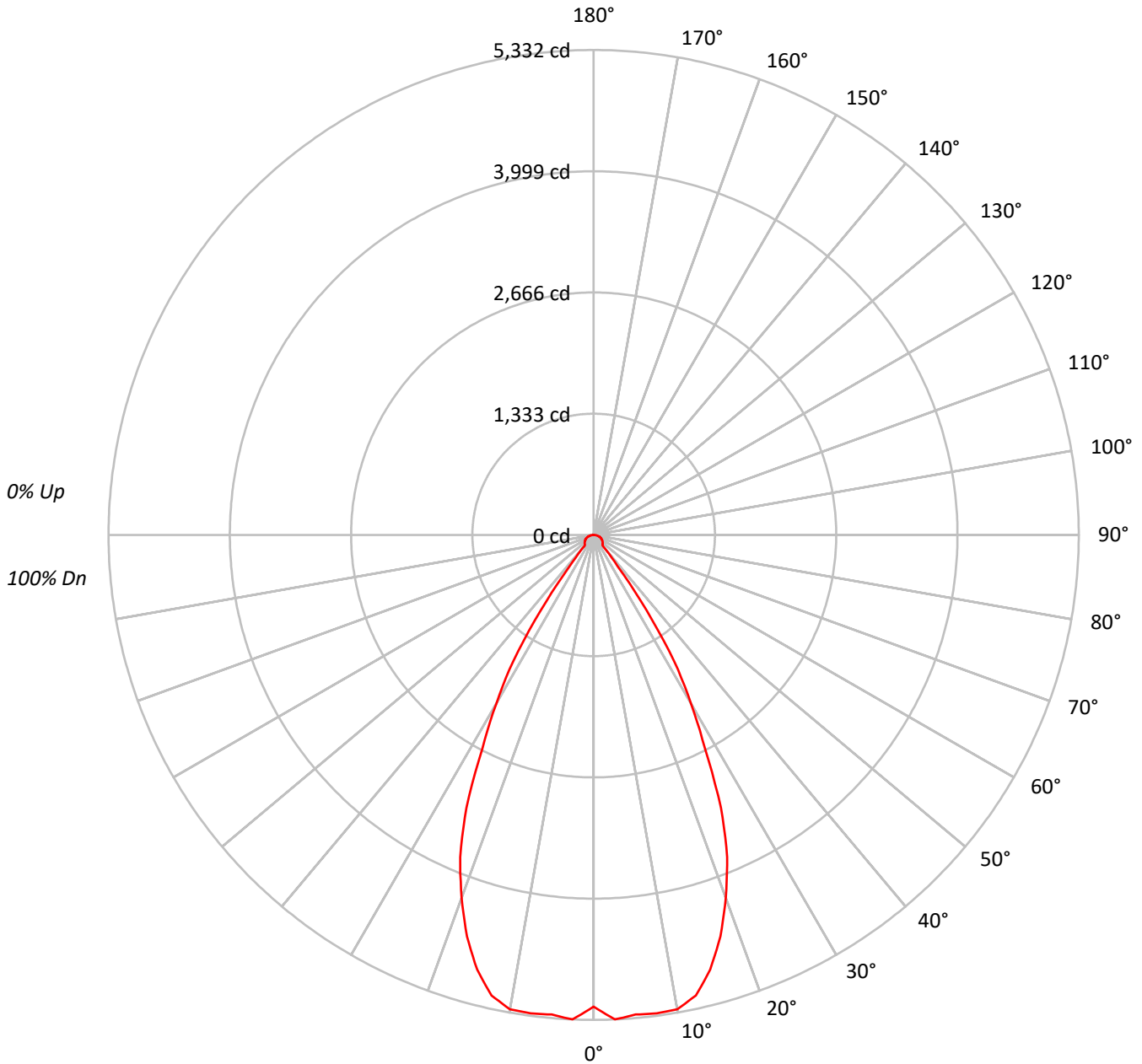
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100															
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93				93															
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86				86															
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80				80															
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75				75															
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70				70															
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66				66															
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62				62															
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59				59															
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55				55															
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53				53															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	566615
5°	580548
10°	587560
15°	559727
20°	493509
25°	399161
30°	270002
35°	135303
40°	21951
45°	21478
50°	21910
55°	22249
60°	22857
65°	23371
70°	23927
75°	24231
80°	23344
85°	19431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 24231 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.9	11.6
10°-20°	1368.7	31.3
20°-30°	1472.6	33.7
30°-40°	640.1	14.7
40°-50°	107.5	2.5
50°-60°	104.5	2.4
60°-70°	89.4	2.0
70°-80°	59.8	1.4
80°-90°	17.9	0.4
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°	3347.3	76.7
0°-40°	3987.4	91.3
0°-60°	4199.5	96.2
0°-90°	4366.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4366.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5186	
5°	5293	506
15°	4948	1369
25°	3311	1473
35°	1014	640
45°	139	108
55°	117	105
65°	90	89
75°	57	60
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5185.9
2.5°	5331.7
5°	5293.2
7.5°	5305.3
10°	5295.9
12.5°	5186.6
15°	4948.3
17.5°	4628.4
20°	4244.4
22.5°	3833.4
25°	3311.0
27.5°	2648.3
30°	2140.1
32.5°	1649.4
35°	1014.4
37.5°	434.0
40°	153.9
42.5°	141.7
45°	139.0
47.5°	134.3
50°	128.9
52.5°	122.8
55°	116.8
57.5°	110.7
60°	104.6
62.5°	97.9
65°	90.4
67.5°	83.0
70°	74.9
72.5°	66.1
75°	57.4
77.5°	47.2
80°	37.1
82.5°	26.3
85°	15.5
87.5°	5.4
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)