

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: P749713

Luminaire Tested: LD4D50D010-EU4DR7040509024-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749713
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-EU4DR7040509024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4186.0 lumens
Efficiency: N/A
Efficacy: 89.1 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

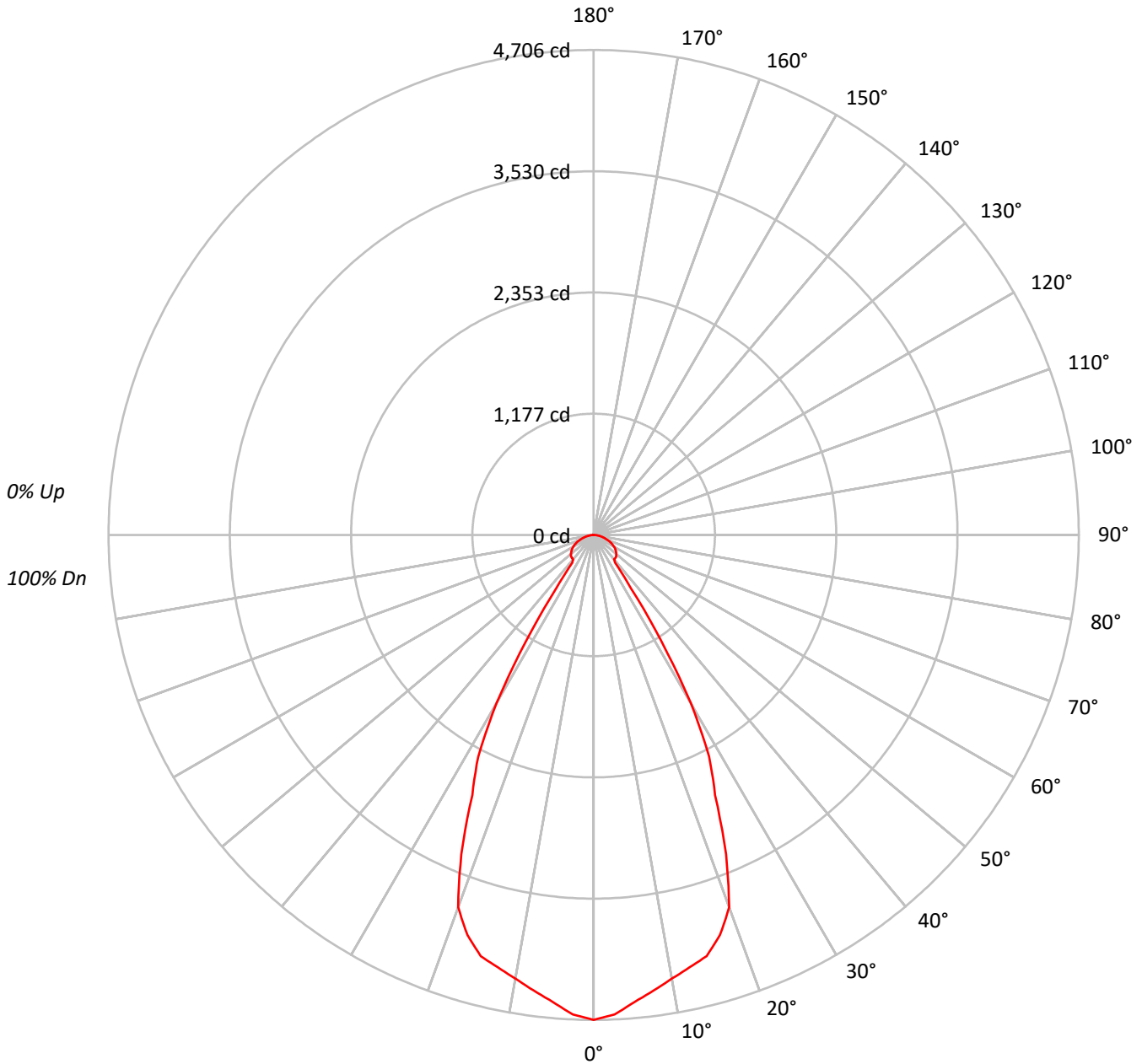
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	514203
5°	498926
10°	485013
15°	478646
20°	446965
25°	335784
30°	237364
35°	84084
40°	44215
45°	47097
50°	48767
55°	49680
60°	49998
65°	48940
70°	46193
75°	42764
80°	38004
85°	30839

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 50004 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.1	10.3
10°-20°	1176.9	28.1
20°-30°	1296.2	31.0
30°-40°	495.2	11.8
40°-50°	233.8	5.6
50°-60°	232.5	5.6
60°-70°	186.2	4.4
70°-80°	107.0	2.6
80°-90°	29.1	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°	2902.2	69.3
0°-40°	3397.4	81.2
0°-60°	3863.7	92.3
0°-90°	4186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4186.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4706	
5°	4549	429
15°	4232	1177
25°	2785	1296
35°	630	495
45°	305	234
55°	261	232
65°	189	186
75°	101	107
85°	25	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4706.2
2.5°	4657.0
5°	4549.0
7.5°	4458.8
10°	4371.6
12.5°	4297.9
15°	4231.5
17.5°	4071.3
20°	3844.1
22.5°	3353.8
25°	2785.3
27.5°	2424.6
30°	1881.4
32.5°	1215.3
35°	630.4
37.5°	340.5
40°	310.0
42.5°	307.7
45°	304.8
47.5°	298.0
50°	286.9
52.5°	274.2
55°	260.8
57.5°	245.9
60°	228.8
62.5°	209.4
65°	189.3
67.5°	166.9
70°	144.6
72.5°	122.2
75°	101.3
77.5°	79.7
80°	60.4
82.5°	42.5
85°	24.6
87.5°	9.7
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)