

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: P749603

Luminaire Tested: LD4D50D010-EU4DR6040509035-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749603
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-EU4DR6040509035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3913.5 lumens
Efficiency: N/A
Efficacy: 83.3 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

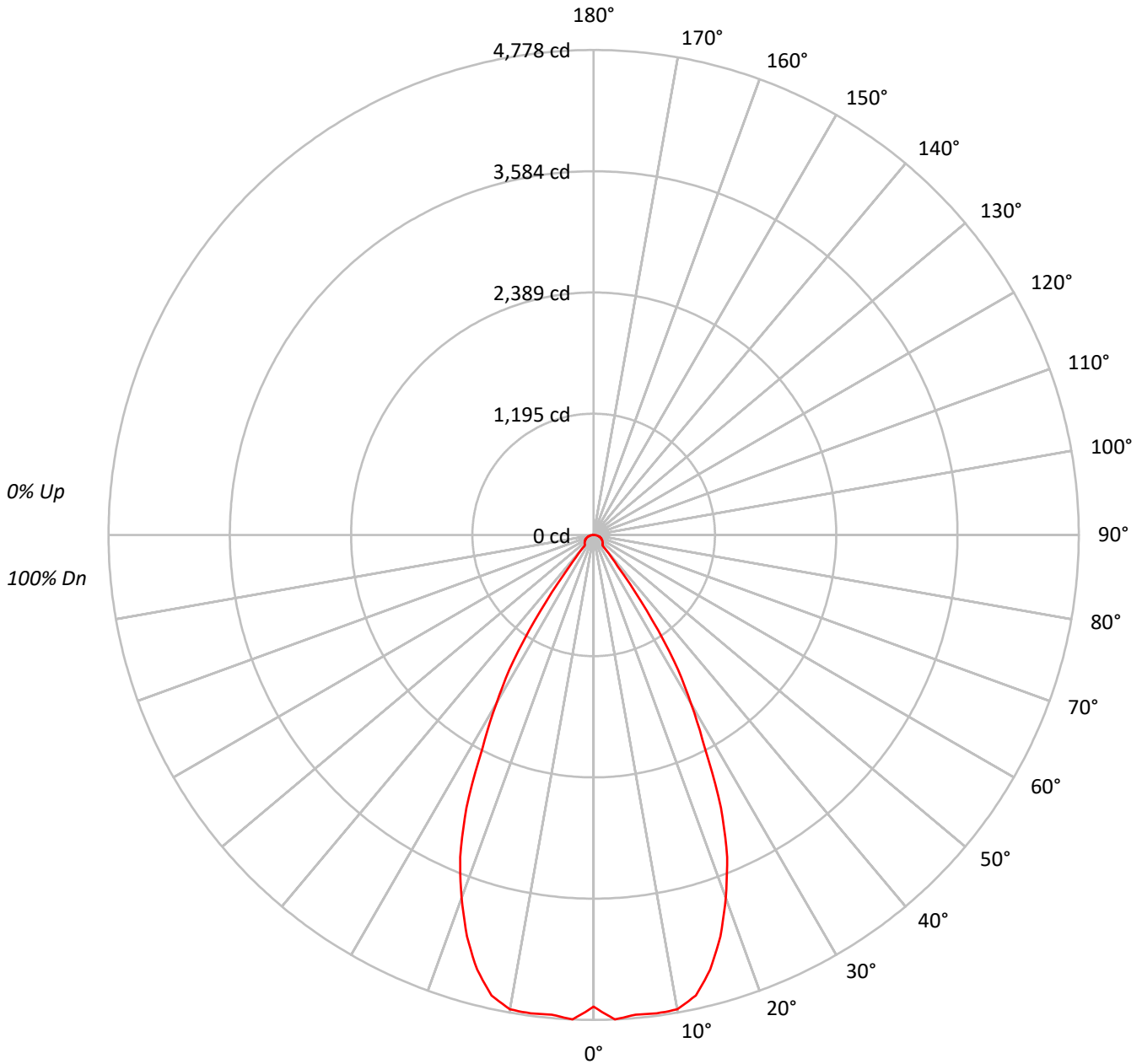
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			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°	507822
5°	520313
10°	526595
15°	501654
20°	442302
25°	357750
30°	241982
35°	121258
40°	19669
45°	19253
50°	19633
55°	19925
60°	20497
65°	20967
70°	21436
75°	21699
80°	20953
85°	17425

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 21699 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.4	11.6
10°-20°	1226.7	31.3
20°-30°	1319.8	33.7
30°-40°	573.7	14.7
40°-50°	96.4	2.5
50°-60°	93.7	2.4
60°-70°	80.1	2.0
70°-80°	53.6	1.4
80°-90°	16.0	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°	3000.0	76.7
0°-40°	3573.7	91.3
0°-60°	3763.7	96.2
0°-90°	3913.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3913.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4648	
5°	4744	453
15°	4435	1227
25°	2968	1320
35°	909	574
45°	125	96
55°	105	94
65°	81	80
75°	51	54
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4647.8
2.5°	4778.4
5°	4744.0
7.5°	4754.9
10°	4746.4
12.5°	4648.4
15°	4434.9
17.5°	4148.2
20°	3804.0
22.5°	3435.6
25°	2967.5
27.5°	2373.5
30°	1918.0
32.5°	1478.3
35°	909.1
37.5°	388.9
40°	137.9
42.5°	127.0
45°	124.6
47.5°	120.4
50°	115.5
52.5°	110.1
55°	104.6
57.5°	99.2
60°	93.8
62.5°	87.7
65°	81.1
67.5°	74.4
70°	67.1
72.5°	59.3
75°	51.4
77.5°	42.3
80°	33.3
82.5°	23.6
85°	13.9
87.5°	4.8
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)