

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: P749598

Luminaire Tested: LD4D50D010-EU4DR6040509035-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749598
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-EU4DR6040509035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4441.4 lumens
Efficiency: N/A
Efficacy: 94.5 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

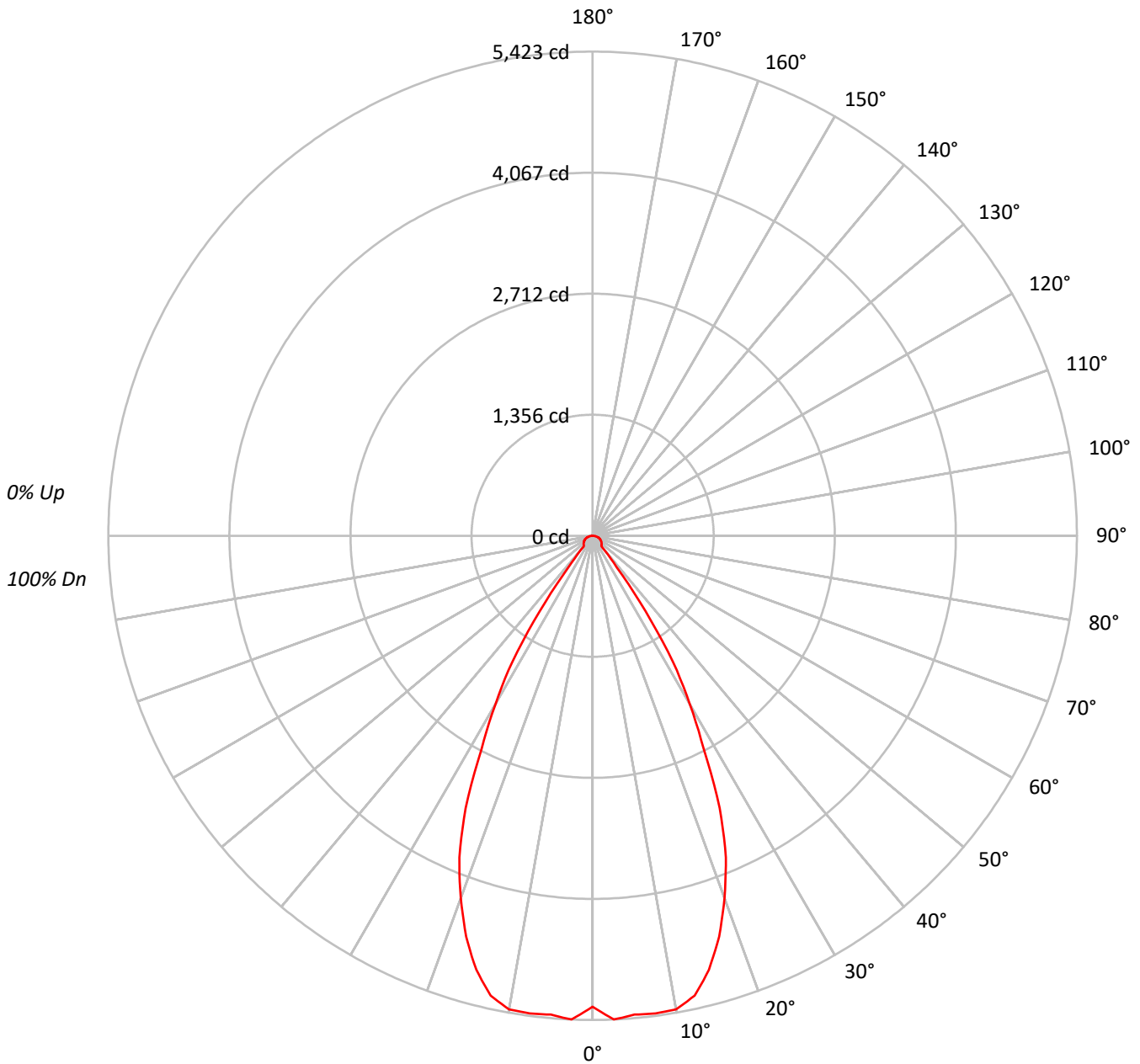


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	576318
5°	590496
10°	597623
15°	569319
20°	501962
25°	406008
30°	274633
35°	137611
40°	22322
45°	21849
50°	22284
55°	22630
60°	23251
65°	23785
70°	24343
75°	24611
80°	23784
85°	19807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 24611 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.6	11.6
10°-20°	1392.2	31.3
20°-30°	1497.9	33.7
30°-40°	651.1	14.7
40°-50°	109.4	2.5
50°-60°	106.3	2.4
60°-70°	90.9	2.0
70°-80°	60.9	1.4
80°-90°	18.2	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°	3404.6	76.7
0°-40°	4055.7	91.3
0°-60°	4271.4	96.2
0°-90°	4441.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4441.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5275	
5°	5384	515
15°	5033	1392
25°	3368	1498
35°	1032	651
45°	141	109
55°	119	106
65°	92	91
75°	58	61
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5274.7
2.5°	5423.0
5°	5383.9
7.5°	5396.2
10°	5386.6
12.5°	5275.4
15°	5033.1
17.5°	4707.7
20°	4317.1
22.5°	3899.1
25°	3367.8
27.5°	2693.7
30°	2176.8
32.5°	1677.7
35°	1031.7
37.5°	441.4
40°	156.5
42.5°	144.2
45°	141.4
47.5°	136.6
50°	131.1
52.5°	124.9
55°	118.8
57.5°	112.6
60°	106.4
62.5°	99.5
65°	92.0
67.5°	84.4
70°	76.2
72.5°	67.3
75°	58.3
77.5°	48.1
80°	37.8
82.5°	26.8
85°	15.8
87.5°	5.5
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)