

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: P748805

Luminaire Tested: LD4D45BD010-EU4DR6040509030-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748805
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: LD4D45BD010-EU4DR6040509030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3742.5 lumens
Efficiency: N/A
Efficacy: 96.7 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

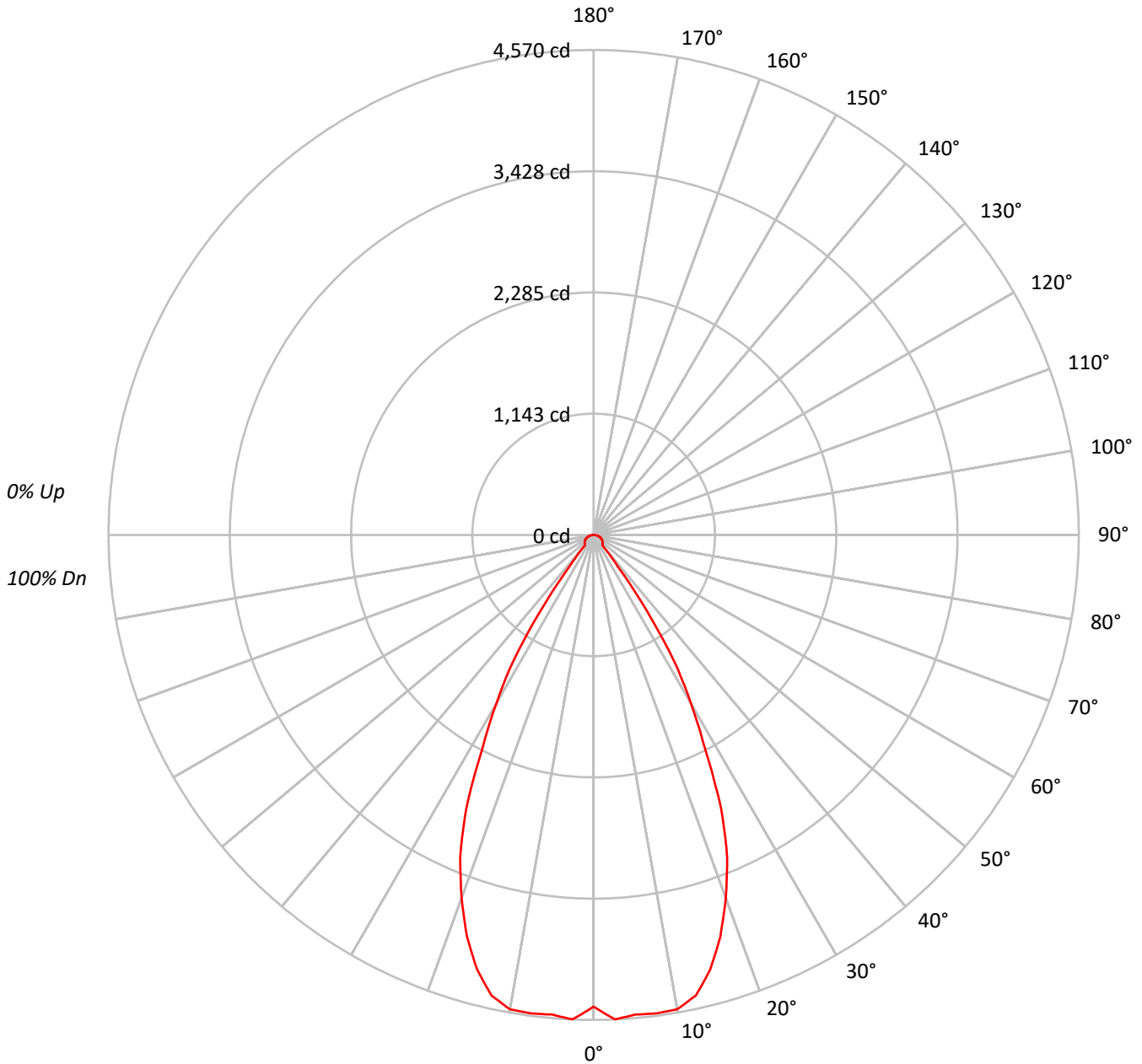
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	485620
5°	497566
10°	503574
15°	479721
20°	422966
25°	342101
30°	231409
35°	115963
40°	18813
45°	18419
50°	18783
55°	19068
60°	19601
65°	20036
70°	20509
75°	20770
80°	20009
85°	16673

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 20770 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.6	11.6
10°-20°	1173.1	31.3
20°-30°	1262.1	33.7
30°-40°	548.6	14.7
40°-50°	92.2	2.5
50°-60°	89.6	2.4
60°-70°	76.6	2.0
70°-80°	51.3	1.4
80°-90°	15.3	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°	2868.8	76.7
0°-40°	3417.4	91.3
0°-60°	3599.2	96.2
0°-90°	3742.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3742.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4445	
5°	4537	434
15°	4241	1173
25°	2838	1262
35°	869	549
45°	119	92
55°	100	90
65°	78	77
75°	49	51
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4444.6
2.5°	4569.5
5°	4536.6
7.5°	4547.0
10°	4538.9
12.5°	4445.2
15°	4241.0
17.5°	3966.8
20°	3637.7
22.5°	3285.4
25°	2837.7
27.5°	2269.7
30°	1834.2
32.5°	1413.7
35°	869.4
37.5°	371.9
40°	131.9
42.5°	121.5
45°	119.2
47.5°	115.1
50°	110.5
52.5°	105.3
55°	100.1
57.5°	94.9
60°	89.7
62.5°	83.9
65°	77.5
67.5°	71.1
70°	64.2
72.5°	56.7
75°	49.2
77.5°	40.5
80°	31.8
82.5°	22.6
85°	13.3
87.5°	4.6
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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