

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: P748597

Luminaire Tested: LD4D45BD010-EU4DR4540509040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR4540509040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4224.8 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

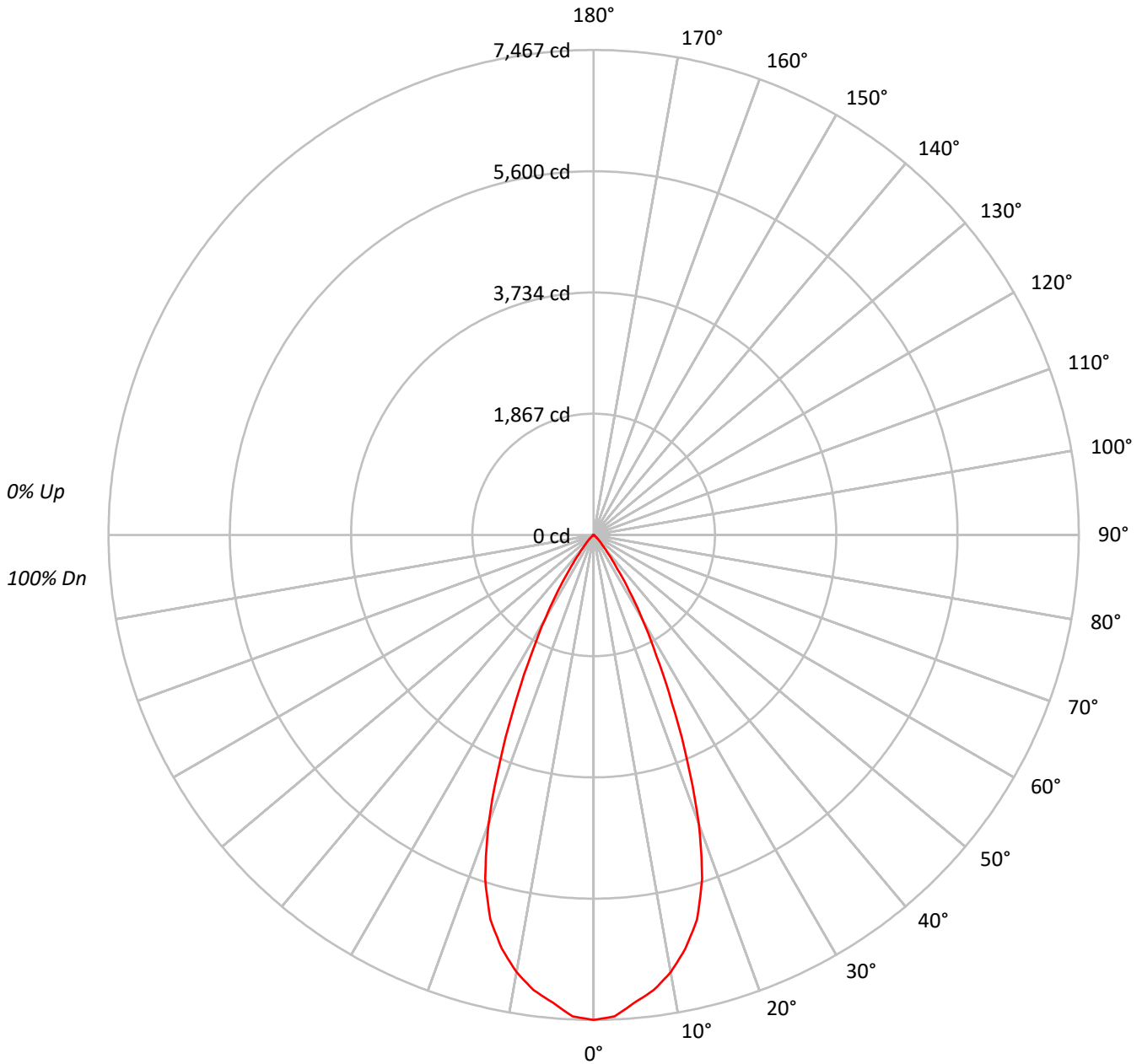
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	100	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95	95	95	95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90	90	90	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	85	85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81	81	81	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77	77	77	77
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73	73	73	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69	69	69	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66	66	66	66
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63	63	63	63
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60	60	60	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	815894
5°	792666
10°	758362
15°	694063
20°	550633
25°	343765
30°	189472
35°	85072
40°	33504
45°	15792
50°	7496
55°	3924
60°	1923
65°	465
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15792 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.1	16.1
10°-20°	1671.3	39.6
20°-30°	1323.5	31.3
30°-40°	440.7	10.4
40°-50°	87.5	2.1
50°-60°	19.9	0.5
60°-70°	2.9	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	3673.8	87.0
0°-40°	4114.5	97.4
0°-60°	4221.9	99.9
0°-90°	4224.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4224.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7467	
5°	7227	679
15°	6136	1671
25°	2852	1323
35°	638	441
45°	102	87
55°	21	20
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7467.4
2.5°	7418.7
5°	7227.2
7.5°	7069.2
10°	6835.4
12.5°	6524.1
15°	6135.9
17.5°	5552.1
20°	4735.7
22.5°	3763.1
25°	2851.5
27.5°	2088.0
30°	1501.8
32.5°	1021.4
35°	637.8
37.5°	378.2
40°	234.9
42.5°	154.5
45°	102.2
47.5°	65.8
50°	44.1
52.5°	29.4
55°	20.6
57.5°	13.5
60°	8.8
62.5°	4.7
65°	1.8
67.5°	0.6
70°	0.6
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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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