

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: P784615

Luminaire Tested: LER4DD40BD010-EC4DR2540509024-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD40BD010-EC4DR2540509024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2550.7 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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

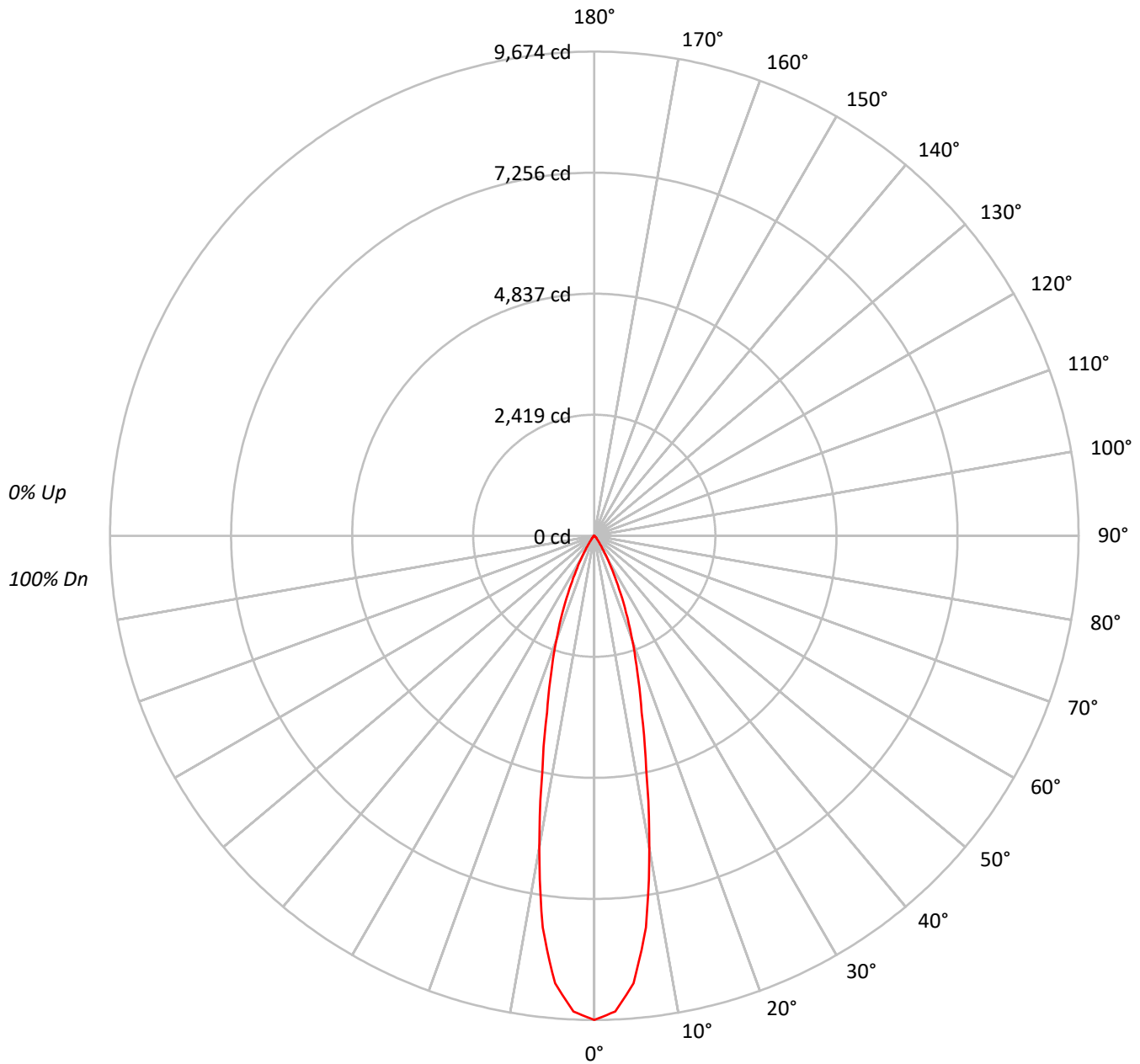


Downlight

TEST NUMBER: P784615

CATALOG NUMBER: LER4DD40BD010-EC4DR2540509024-4LBDP1MW

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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	97	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	93	89	86	98	93	89	86		91	87	85		89	86	84		88	85	83
6	97	90	85	82	95	89	85	82		88	84	81		87	83	81		85	83	80
7	93	87	82	79	92	86	82	79		85	81	78		84	80	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		80	76	73		79	75	73		78	75	73
10	85	78	74	71	85	78	74	71		77	73	71		76	73	71		76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1056989
5°	984460
10°	702234
15°	413594
20°	257347
25°	141231
30°	64583
35°	24462
40°	11082
45°	6660
50°	2771
55°	1791
60°	1246
65°	853
70°	128
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6660 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.4	30.2
10°-20°	1044.8	41.0
20°-30°	552.9	21.7
30°-40°	136.5	5.4
40°-50°	33.3	1.3
50°-60°	8.8	0.3
60°-70°	3.0	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°	2369.1	92.9
0°-40°	2505.6	98.2
0°-60°	2547.7	99.9
0°-90°	2550.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2550.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9674	
5°	8976	771
15°	3656	1045
25°	1172	553
35°	183	136
45°	43	33
55°	9	9
65°	3	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9674.0
2.5°	9515.1
5°	8975.9
7.5°	7892.6
10°	6329.5
12.5°	4784.8
15°	3656.4
17.5°	2849.6
20°	2213.3
22.5°	1659.8
25°	1171.5
27.5°	785.6
30°	511.9
32.5°	311.5
35°	183.4
37.5°	112.2
40°	77.7
42.5°	59.4
45°	43.1
47.5°	26.0
50°	16.3
52.5°	11.8
55°	9.4
57.5°	7.3
60°	5.7
62.5°	4.5
65°	3.3
67.5°	1.2
70°	0.4
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



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— 0°-180°







(END OF REPORT)