

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: P785323

Luminaire Tested: LER4DD50D010-EC4DR7040509035-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR7040509035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3855.8 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
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

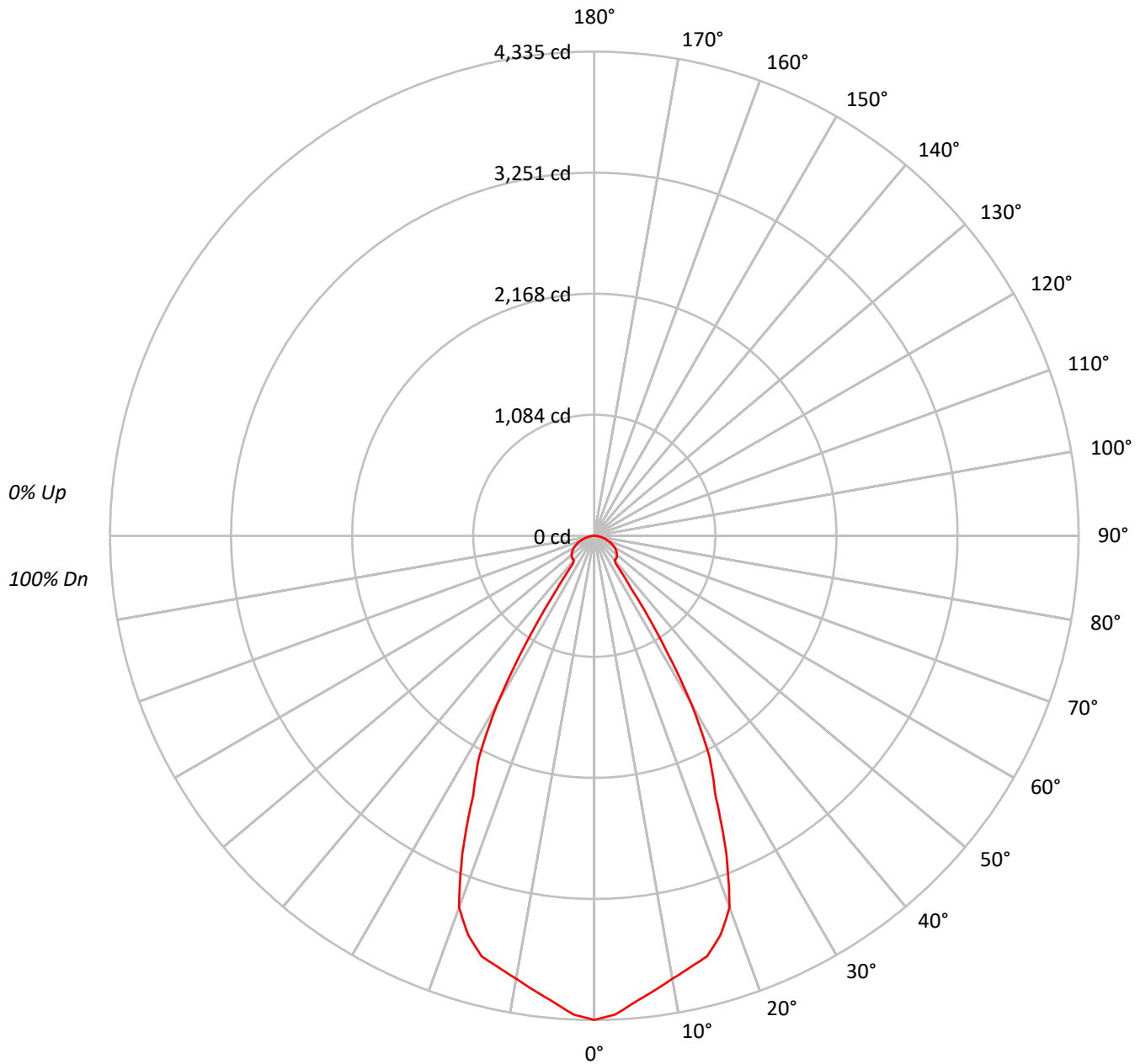


Downlight

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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	473656
5°	459584
10°	446770
15°	440911
20°	411722
25°	309298
30°	218654
35°	77455
40°	40721
45°	43373
50°	44926
55°	45756
60°	46042
65°	45062
70°	42552
75°	39387
80°	34984
85°	28457

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 46059 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.2	10.3
10°-20°	1084.1	28.1
20°-30°	1194.0	31.0
30°-40°	456.2	11.8
40°-50°	215.4	5.6
50°-60°	214.1	5.6
60°-70°	171.4	4.4
70°-80°	98.5	2.6
80°-90°	26.8	0.7
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°	2673.3	69.3
0°-40°	3129.5	81.2
0°-60°	3559.1	92.3
0°-90°	3855.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3855.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4335	
5°	4190	395
15°	3898	1084
25°	2566	1194
35°	581	456
45°	281	215
55°	240	214
65°	174	171
75°	93	99
85°	23	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4335.1
2.5°	4289.8
5°	4190.3
7.5°	4107.2
10°	4026.9
12.5°	3959.0
15°	3897.9
17.5°	3750.3
20°	3541.0
22.5°	3089.3
25°	2565.6
27.5°	2233.4
30°	1733.1
32.5°	1119.5
35°	580.7
37.5°	313.7
40°	285.5
42.5°	283.5
45°	280.7
47.5°	274.5
50°	264.3
52.5°	252.6
55°	240.2
57.5°	226.5
60°	210.7
62.5°	192.9
65°	174.3
67.5°	153.7
70°	133.2
72.5°	112.6
75°	93.3
77.5°	73.4
80°	55.6
82.5°	39.1
85°	22.7
87.5°	8.9
90°	0.0



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— 0°-180°







(END OF REPORT)