

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: P785315

Luminaire Tested: LER4DD50D010-EC4DR7040509027-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785315
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-EC4DR7040509027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3703.8 lumens
Efficiency: N/A
Efficacy: 78.8 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

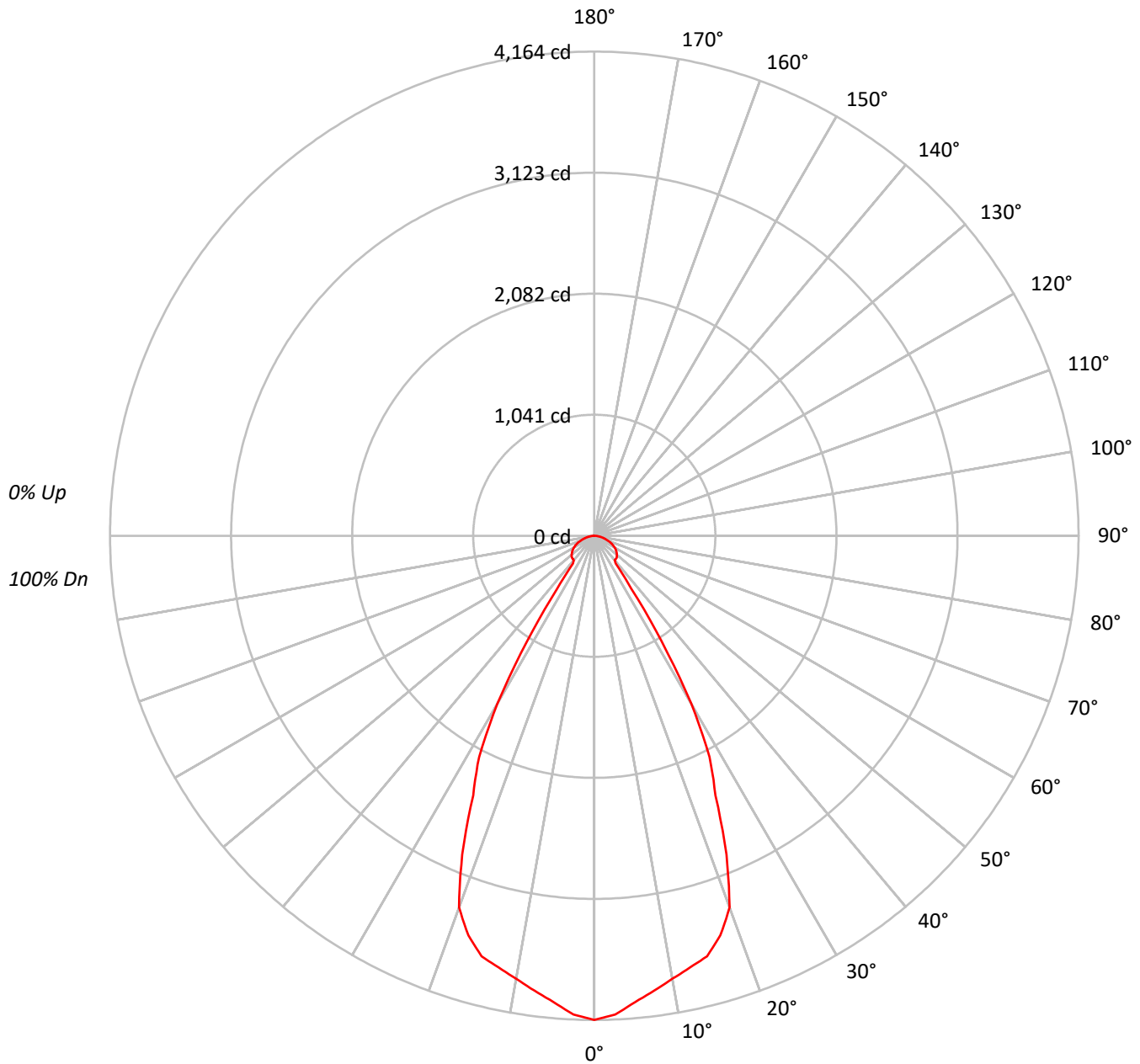


Downlight

TEST NUMBER: P785315

CATALOG NUMBER: LER4DD50D010-EC4DR7040509027-4LBDP1MW

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
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°	454973
5°	441454
10°	429140
15°	423514
20°	395479
25°	297098
30°	210024
35°	74401
40°	39123
45°	41658
50°	43141
55°	43965
60°	44229
65°	43304
70°	40859
75°	37867
80°	33600
85°	27329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 44249 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.6	10.3
10°-20°	1041.3	28.1
20°-30°	1146.9	31.0
30°-40°	438.2	11.8
40°-50°	206.9	5.6
50°-60°	205.7	5.6
60°-70°	164.7	4.4
70°-80°	94.6	2.6
80°-90°	25.8	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°	2567.9	69.3
0°-40°	3006.1	81.2
0°-60°	3418.7	92.3
0°-90°	3703.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3703.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4164	
5°	4025	380
15°	3744	1041
25°	2464	1147
35°	558	438
45°	270	207
55°	231	206
65°	168	165
75°	90	95
85°	22	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4164.1
2.5°	4120.6
5°	4025.0
7.5°	3945.2
10°	3868.0
12.5°	3802.8
15°	3744.1
17.5°	3602.4
20°	3401.3
22.5°	2967.5
25°	2464.4
27.5°	2145.3
30°	1664.7
32.5°	1075.3
35°	557.8
37.5°	301.3
40°	274.3
42.5°	272.3
45°	269.6
47.5°	263.7
50°	253.8
52.5°	242.6
55°	230.8
57.5°	217.6
60°	202.4
62.5°	185.3
65°	167.5
67.5°	147.7
70°	127.9
72.5°	108.1
75°	89.7
77.5°	70.5
80°	53.4
82.5°	37.6
85°	21.8
87.5°	8.6
90°	0.0



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— 0°-180°







(END OF REPORT)