

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: P785299

Luminaire Tested: LER4DD50D010-EC4DR6540509035-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR6540509035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3697.3 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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

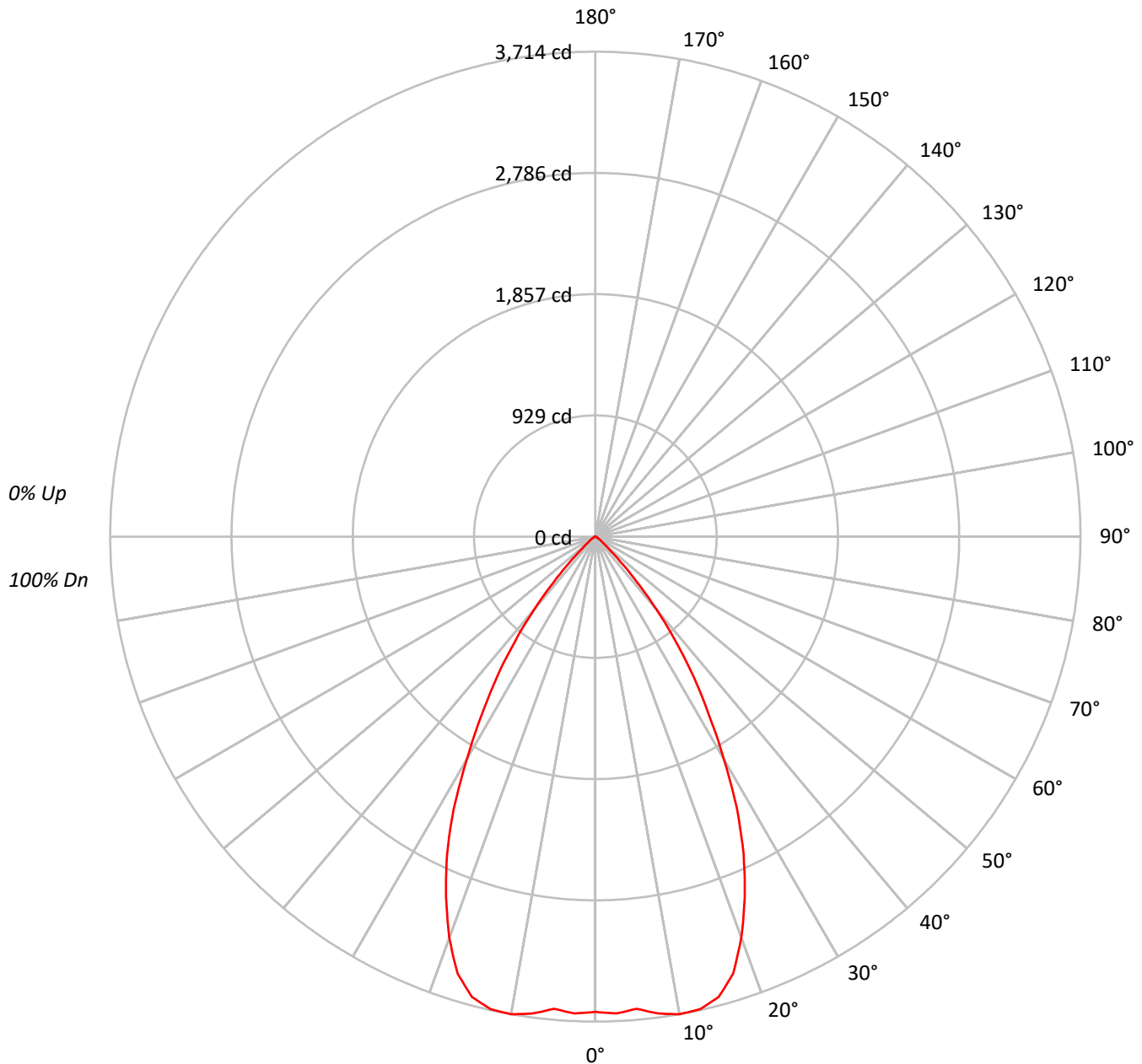


Downlight

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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	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82
5	92	83	78	73	90	83	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	68	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	65	59	55	64	58	55		63	58	55		62
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	397731
5°	398066
10°	412077
15°	412757
20°	380015
25°	323789
30°	247873
35°	175118
40°	103364
45°	41967
50°	15213
55°	8477
60°	4851
65°	2663
70°	2811
75°	2195
80°	2265
85°	2006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 41967 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.5	9.5
10°-20°	1011.1	27.3
20°-30°	1213.1	32.8
30°-40°	815.2	22.0
40°-50°	244.0	6.6
50°-60°	43.1	1.2
60°-70°	12.2	0.3
70°-80°	6.0	0.2
80°-90°	1.9	0.1
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°	2574.8	69.6
0°-40°	3390.0	91.7
0°-60°	3677.1	99.5
0°-90°	3697.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3697.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3640	
5°	3629	351
15°	3649	1011
25°	2686	1213
35°	1313	815
45°	272	244
55°	44	43
65°	10	12
75°	5	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3640.2
2.5°	3655.8
5°	3629.4
7.5°	3684.2
10°	3714.2
12.5°	3707.0
15°	3649.0
17.5°	3507.3
20°	3268.3
22.5°	2986.9
25°	2685.8
27.5°	2346.0
30°	1964.7
32.5°	1619.1
35°	1312.9
37.5°	1010.3
40°	724.7
42.5°	473.3
45°	271.6
47.5°	143.8
50°	89.5
52.5°	62.1
55°	44.5
57.5°	32.1
60°	22.2
62.5°	14.5
65°	10.3
67.5°	9.3
70°	8.8
72.5°	6.7
75°	5.2
77.5°	4.7
80°	3.6
82.5°	2.6
85°	1.6
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)