

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: P785295

Luminaire Tested: LER4DD50D010-EC4DR6540509030-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785295
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-EC4DR6540509030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3658.7 lumens
Efficiency: N/A
Efficacy: 77.8 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

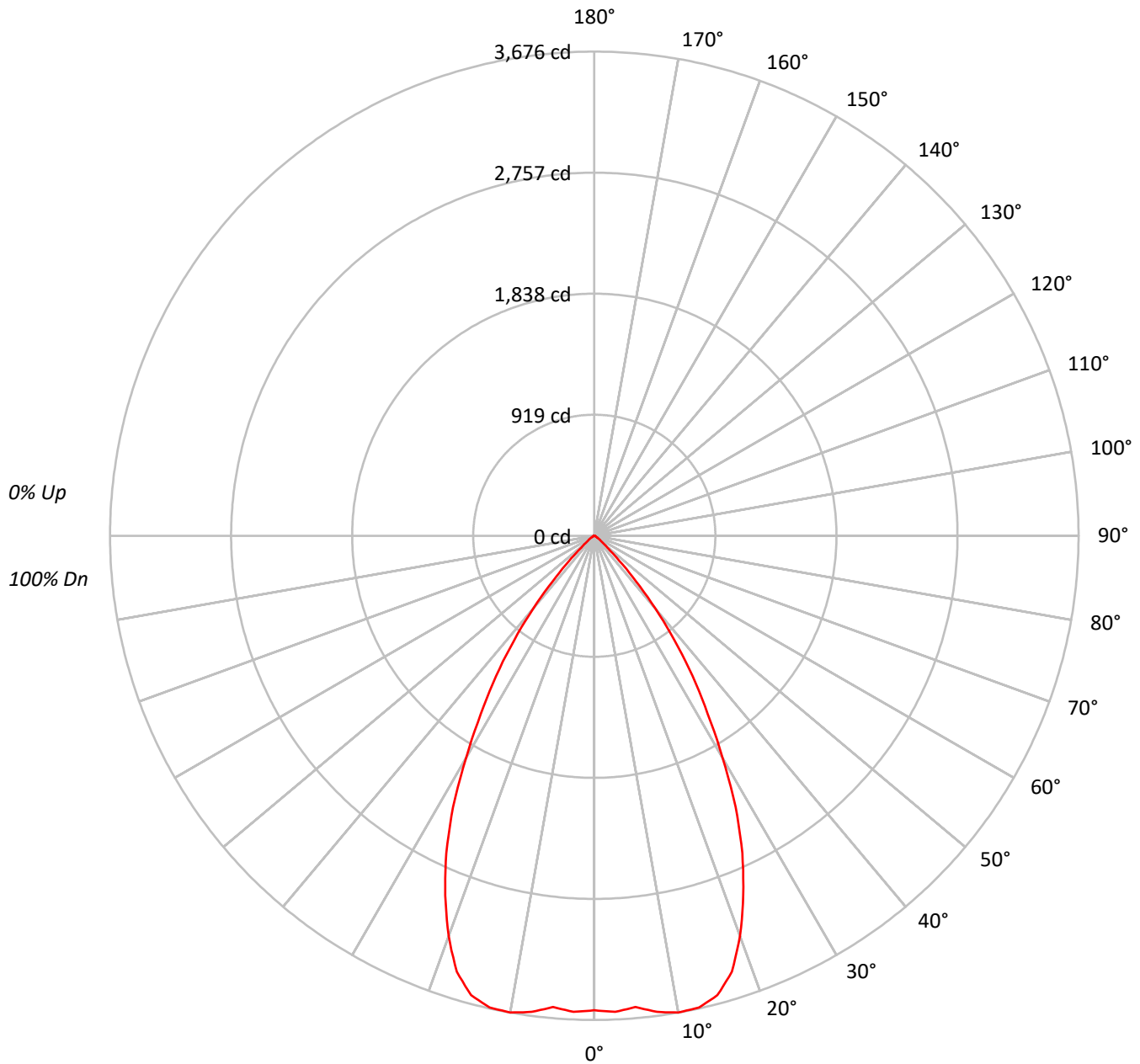


Downlight

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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°	393590
5°	393909
10°	407783
15°	408458
20°	376050
25°	320413
30°	245287
35°	173291
40°	102294
45°	41534
50°	15060
55°	8382
60°	4807
65°	2637
70°	2779
75°	2153
80°	2265
85°	1880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 41534 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.9	9.5
10°-20°	1000.6	27.3
20°-30°	1200.5	32.8
30°-40°	806.8	22.1
40°-50°	241.5	6.6
50°-60°	42.6	1.2
60°-70°	12.1	0.3
70°-80°	5.9	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°	2547.9	69.6
0°-40°	3354.7	91.7
0°-60°	3638.8	99.5
0°-90°	3658.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3658.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3602	
5°	3592	347
15°	3611	1001
25°	2658	1200
35°	1299	807
45°	269	242
55°	44	43
65°	10	12
75°	5	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3602.3
2.5°	3617.6
5°	3591.5
7.5°	3645.8
10°	3675.5
12.5°	3668.3
15°	3611.0
17.5°	3470.7
20°	3234.2
22.5°	2955.7
25°	2657.8
27.5°	2321.5
30°	1944.2
32.5°	1602.3
35°	1299.2
37.5°	999.8
40°	717.2
42.5°	468.4
45°	268.8
47.5°	142.3
50°	88.6
52.5°	61.4
55°	44.0
57.5°	31.7
60°	22.0
62.5°	14.3
65°	10.2
67.5°	9.2
70°	8.7
72.5°	6.7
75°	5.1
77.5°	4.6
80°	3.6
82.5°	2.6
85°	1.5
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)