

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: P781855

Luminaire Tested: LER4D50D010-EC4DR6040509024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR6040509024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4160.2 lumens
Efficiency: N/A
Efficacy: 88.5 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

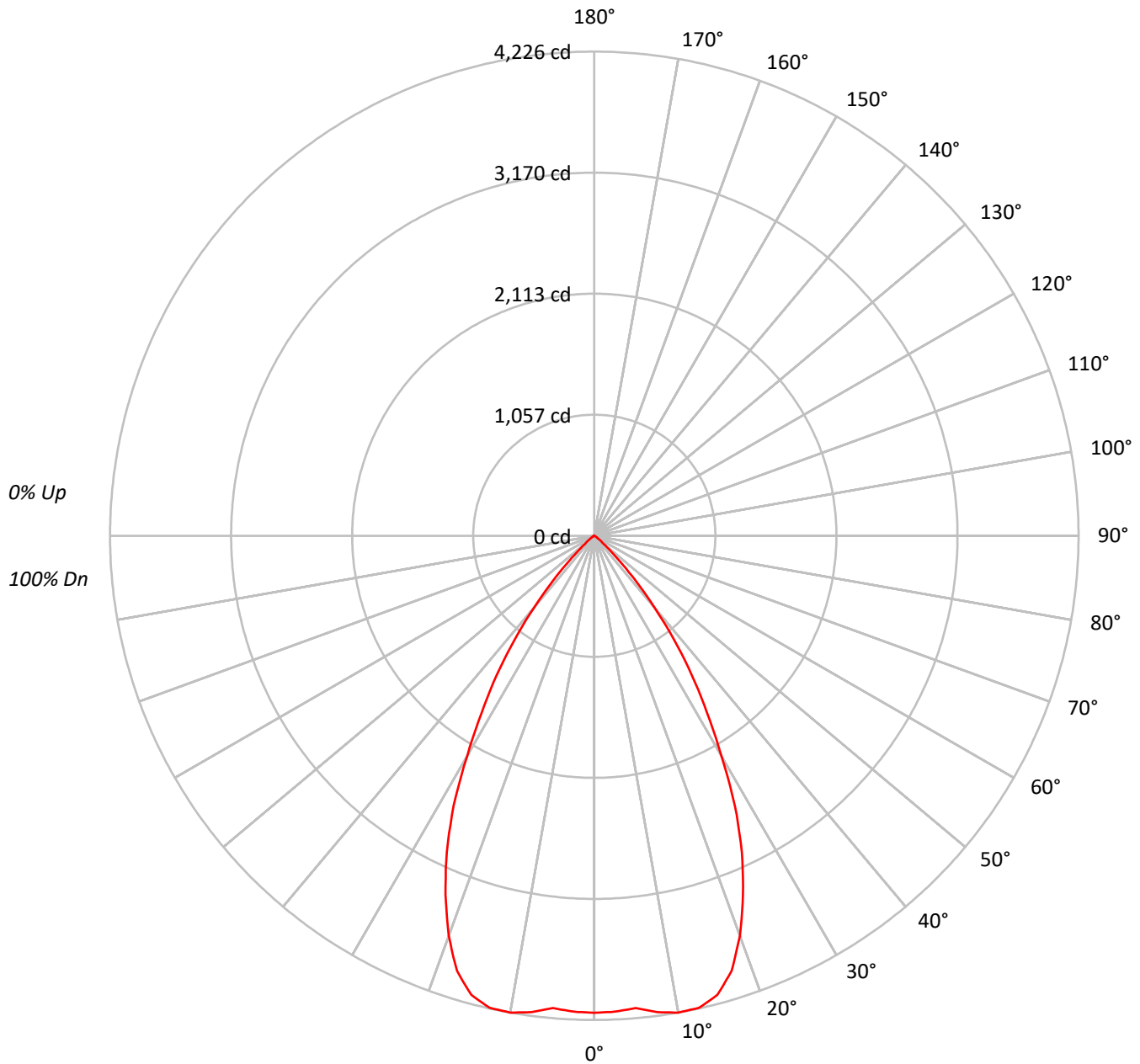


Downlight

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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	454885
5°	453771
10°	468837
15°	469326
20°	431826
25°	367298
30°	279868
35°	197913
40°	116215
45°	46896
50°	15655
55°	7543
60°	3103
65°	465
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 46896 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.1	9.6
10°-20°	1149.4	27.6
20°-30°	1375.7	33.1
30°-40°	920.1	22.1
40°-50°	272.8	6.6
50°-60°	39.2	0.9
60°-70°	3.7	0.1
70°-80°	0.0	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°	2924.3	70.3
0°-40°	3844.4	92.4
0°-60°	4156.5	99.9
0°-90°	4160.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4160.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4163	
5°	4137	399
15°	4149	1149
25°	3047	1376
35°	1484	920
45°	304	273
55°	40	39
65°	2	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4163.3
2.5°	4157.9
5°	4137.3
7.5°	4193.4
10°	4225.8
12.5°	4219.9
15°	4149.1
17.5°	3982.0
20°	3713.9
22.5°	3392.1
25°	3046.7
27.5°	2657.6
30°	2218.3
32.5°	1826.3
35°	1483.8
37.5°	1140.7
40°	814.8
42.5°	537.3
45°	303.5
47.5°	155.3
50°	92.1
52.5°	59.6
55°	39.6
57.5°	25.4
60°	14.2
62.5°	5.9
65°	1.8
67.5°	0.6
70°	0.0
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)