

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: P752835

Luminaire Tested: LD4D70BD010-EU4DR7070959024-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752835
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: LD4D70BD010-EU4DR7070959024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4582.6 lumens
Efficiency: N/A
Efficacy: 68.8 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): 66.6
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

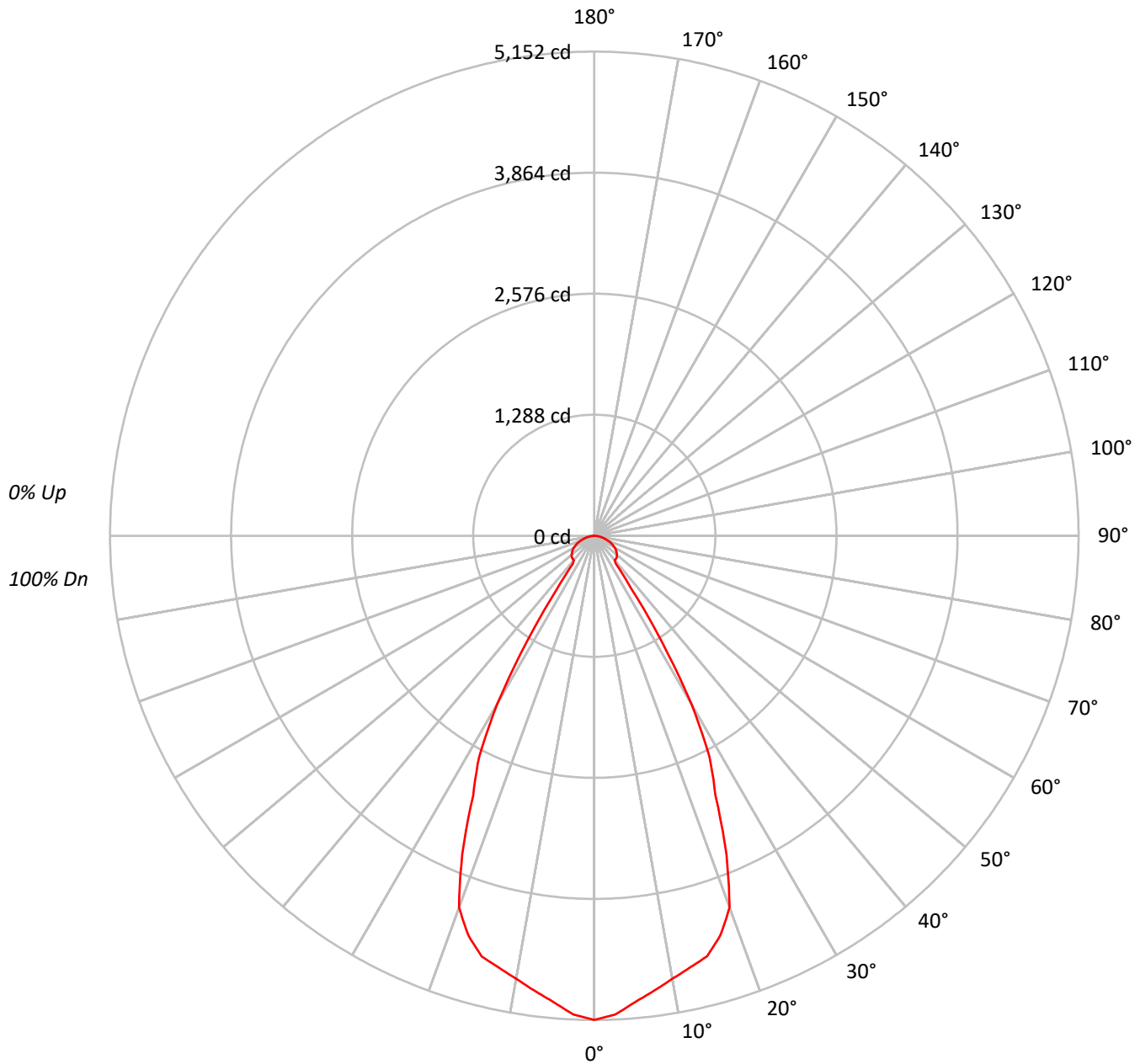


Downlight

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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°	562933
5°	546208
10°	530978
15°	524017
20°	489323
25°	367599
30°	259859
35°	92047
40°	48394
45°	51547
50°	53391
55°	54385
60°	54718
65°	53568
70°	50570
75°	46817
80°	41591
85°	33723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 54742 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.7	10.3
10°-20°	1288.4	28.1
20°-30°	1419.0	31.0
30°-40°	542.2	11.8
40°-50°	256.0	5.6
50°-60°	254.5	5.6
60°-70°	203.8	4.4
70°-80°	117.1	2.6
80°-90°	31.8	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°	3177.2	69.3
0°-40°	3719.4	81.2
0°-60°	4229.9	92.3
0°-90°	4582.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4582.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5152	
5°	4980	470
15°	4633	1288
25°	3049	1419
35°	690	542
45°	334	256
55°	286	255
65°	207	204
75°	111	117
85°	27	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5152.2
2.5°	5098.4
5°	4980.1
7.5°	4881.4
10°	4785.9
12.5°	4705.2
15°	4632.6
17.5°	4457.2
20°	4208.4
22.5°	3671.6
25°	3049.2
27.5°	2654.4
30°	2059.7
32.5°	1330.5
35°	690.1
37.5°	372.8
40°	339.3
42.5°	336.9
45°	333.6
47.5°	326.3
50°	314.1
52.5°	300.2
55°	285.5
57.5°	269.2
60°	250.4
62.5°	229.2
65°	207.2
67.5°	182.7
70°	158.3
72.5°	133.8
75°	110.9
77.5°	87.3
80°	66.1
82.5°	46.5
85°	26.9
87.5°	10.6
90°	0.0



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— 0°-180°







(END OF REPORT)