

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: P752848

Luminaire Tested: LD4D70BD010-EU4DR7070959027-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752848
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-EU4DR7070959027-4LBDP1MW
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: 5191.1 lumens
Efficiency: N/A
Efficacy: 77.9 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

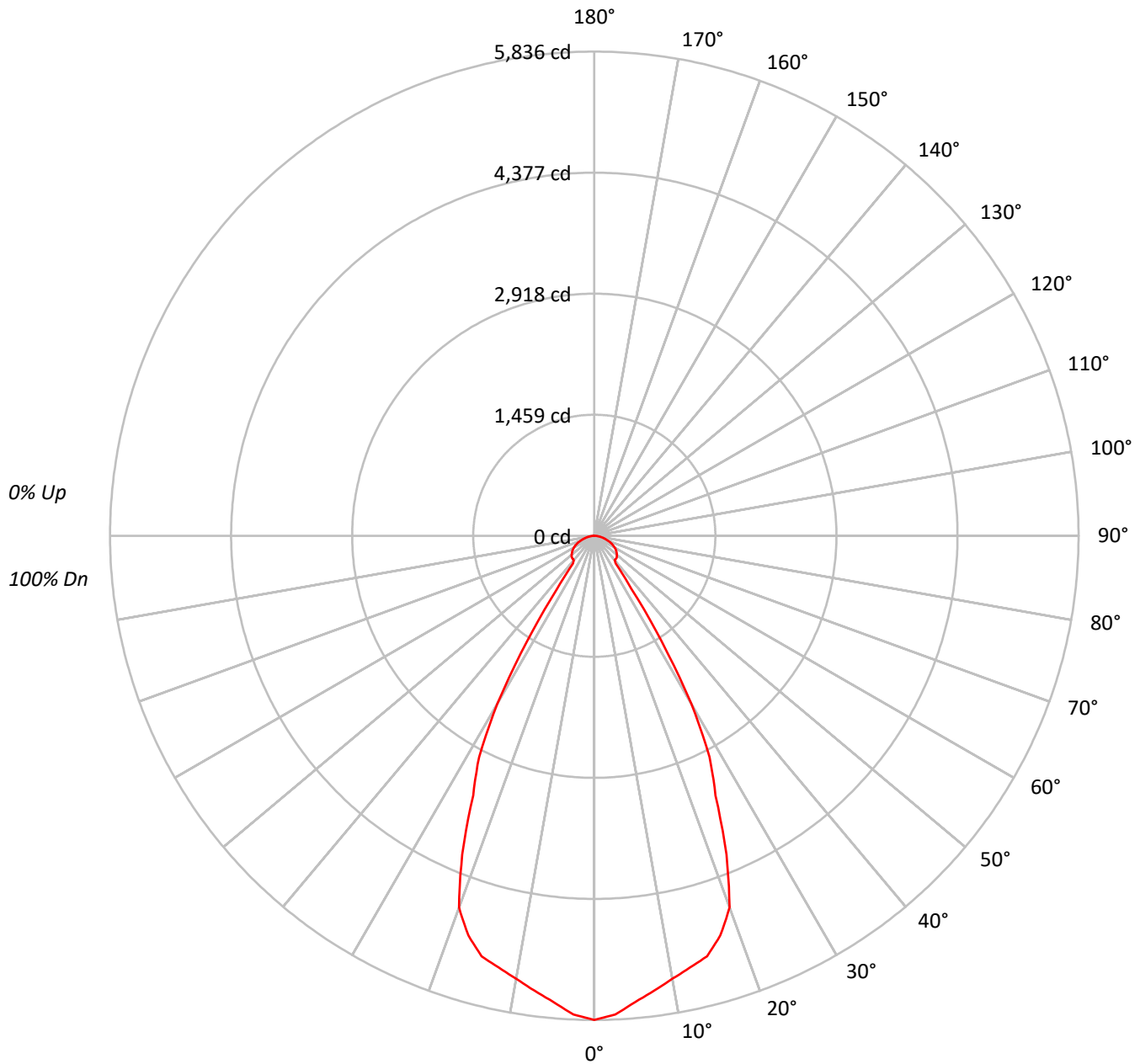


Downlight

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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91						
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83						
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76						
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70						
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65						
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61						
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57						
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53						
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50						
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	637679
5°	618727
10°	601484
15°	593594
20°	554296
25°	416412
30°	294365
35°	104265
40°	54827
45°	58392
50°	60479
55°	61605
60°	61995
65°	60678
70°	57279
75°	53064
80°	47065
85°	38236

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 62002 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.1	10.3
10°-20°	1459.5	28.1
20°-30°	1607.5	31.0
30°-40°	614.2	11.8
40°-50°	290.0	5.6
50°-60°	288.3	5.6
60°-70°	230.8	4.4
70°-80°	132.7	2.6
80°-90°	36.1	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°	3599.1	69.3
0°-40°	4213.2	81.2
0°-60°	4791.5	92.3
0°-90°	5191.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5191.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5836	
5°	5641	532
15°	5248	1460
25°	3454	1607
35°	782	614
45°	378	290
55°	323	288
65°	235	231
75°	126	133
85°	30	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5836.3
2.5°	5775.3
5°	5641.3
7.5°	5529.5
10°	5421.4
12.5°	5329.9
15°	5247.7
17.5°	5049.0
20°	4767.2
22.5°	4159.1
25°	3454.1
27.5°	3006.9
30°	2333.2
32.5°	1507.1
35°	781.7
37.5°	422.3
40°	384.4
42.5°	381.6
45°	377.9
47.5°	369.6
50°	355.8
52.5°	340.1
55°	323.4
57.5°	304.9
60°	283.7
62.5°	259.7
65°	234.7
67.5°	207.0
70°	179.3
72.5°	151.5
75°	125.7
77.5°	98.9
80°	74.8
82.5°	52.7
85°	30.5
87.5°	12.0
90°	0.0



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— 0°-180°







(END OF REPORT)