

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: P754394

Luminaire Tested: LD4D80BD010-EU4DR7070959024-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754394
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: LD4D80BD010-EU4DR7070959024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6911.8 lumens
Efficiency: N/A
Efficacy: 87.6 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): 78.9
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

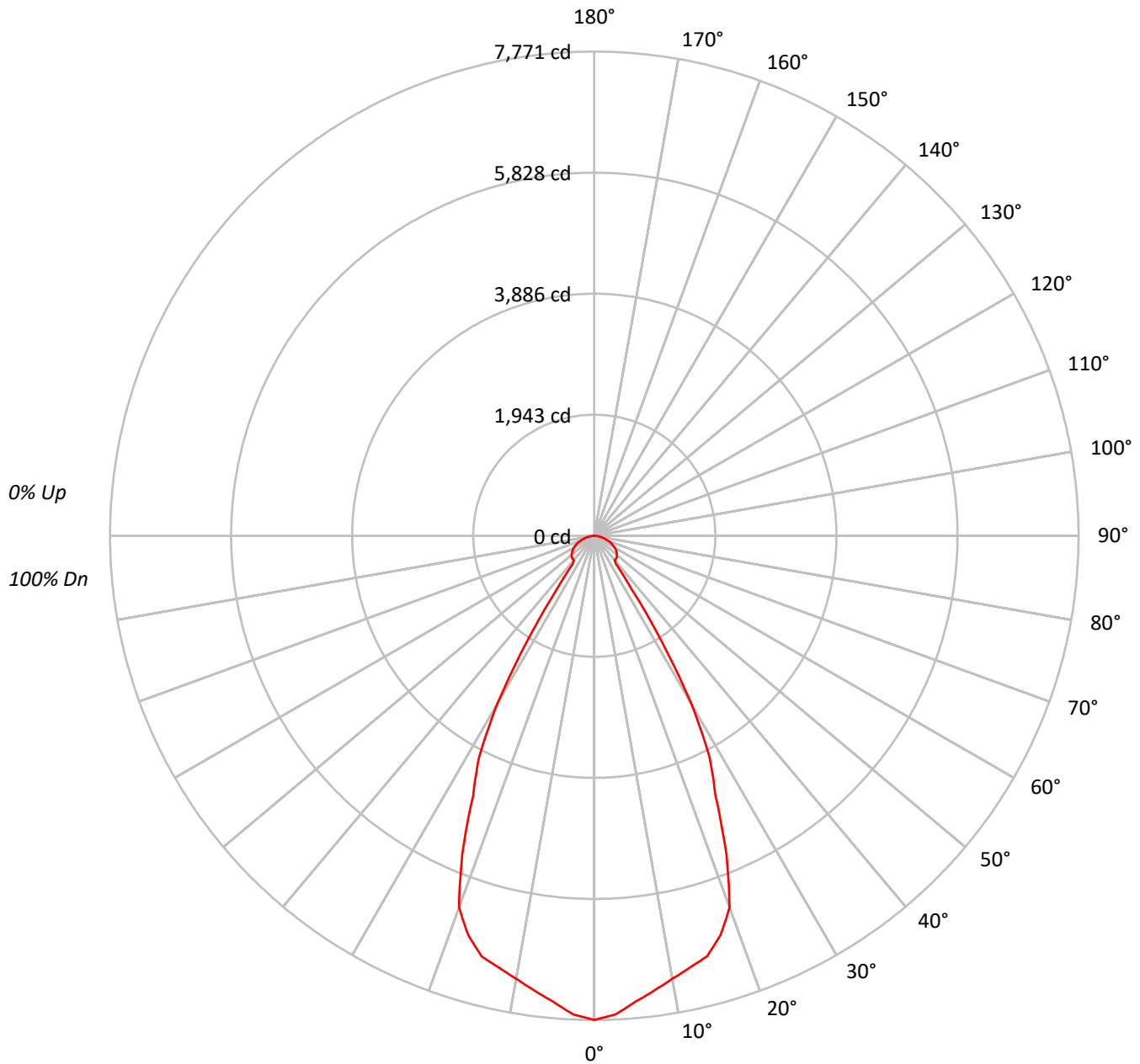


Downlight

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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°	849054
5°	823825
10°	800866
15°	790358
20°	738030
25°	554449
30°	391939
35°	138838
40°	72998
45°	77753
50°	80519
55°	82025
60°	82536
65°	80792
70°	76254
75°	70626
80°	62732
85°	50897

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 82561 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.5	10.3
10°-20°	1943.3	28.1
20°-30°	2140.3	31.0
30°-40°	817.8	11.8
40°-50°	386.1	5.6
50°-60°	383.9	5.6
60°-70°	307.3	4.4
70°-80°	176.6	2.6
80°-90°	48.0	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°	4792.1	69.3
0°-40°	5609.9	81.2
0°-60°	6379.8	92.3
0°-90°	6911.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6911.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7771	
5°	7511	708
15°	6987	1943
25°	4599	2140
35°	1041	818
45°	503	386
55°	431	384
65°	312	307
75°	167	177
85°	41	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7770.9
2.5°	7689.7
5°	7511.3
7.5°	7362.4
10°	7218.5
12.5°	7096.7
15°	6987.2
17.5°	6722.7
20°	6347.4
22.5°	5537.8
25°	4599.1
27.5°	4003.6
30°	3106.6
32.5°	2006.7
35°	1040.9
37.5°	562.3
40°	511.8
42.5°	508.1
45°	503.2
47.5°	492.1
50°	473.7
52.5°	452.8
55°	430.6
57.5°	406.0
60°	377.7
62.5°	345.7
65°	312.5
67.5°	275.6
70°	238.7
72.5°	201.8
75°	167.3
77.5°	131.6
80°	99.7
82.5°	70.1
85°	40.6
87.5°	16.0
90°	0.0



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— 0°-180°







(END OF REPORT)