

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: P752797

Luminaire Tested: LD4D70BD010-EU4DR6570959035-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P752797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR6570959035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5869.9 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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

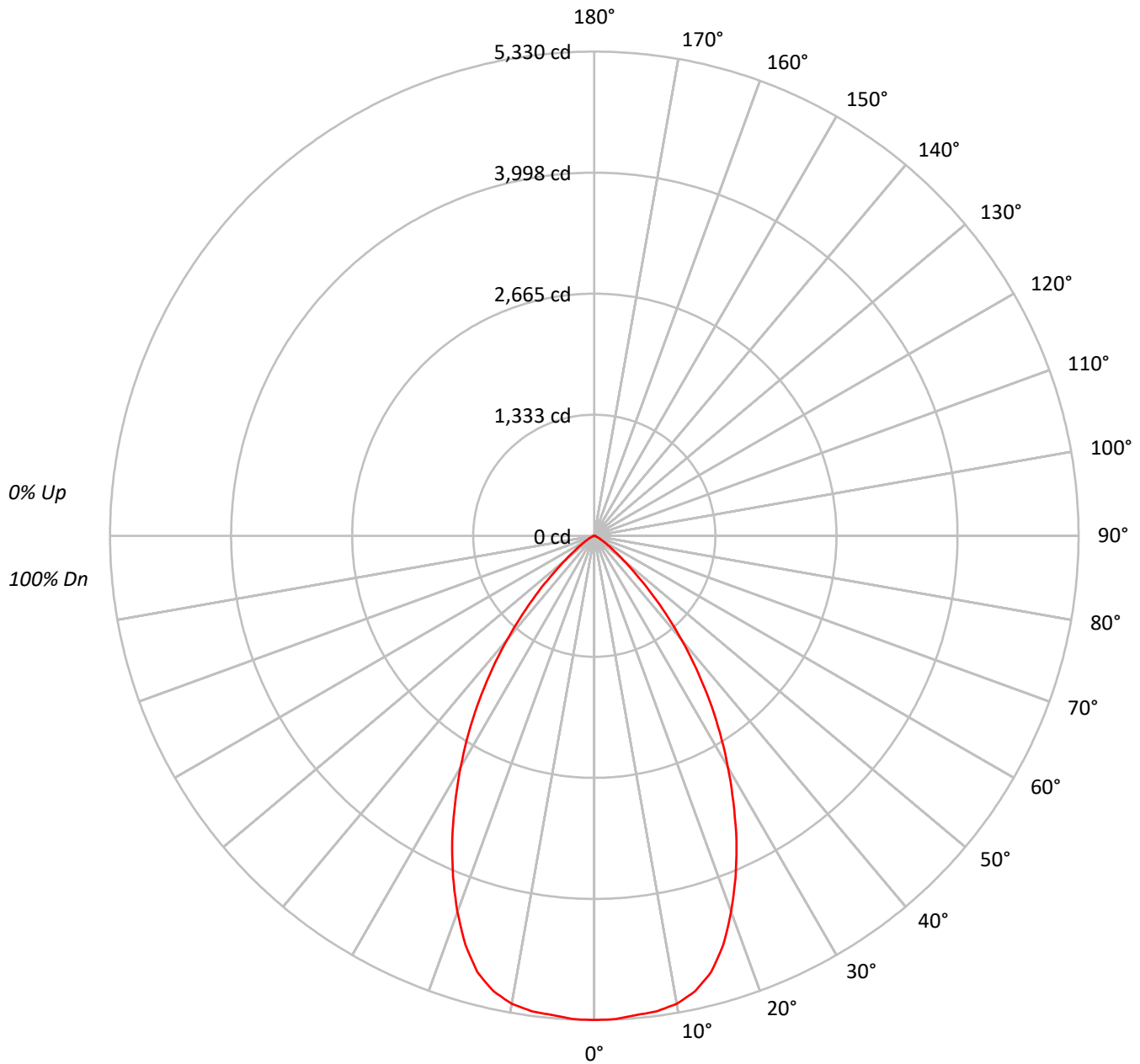


Downlight

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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105		111	108	105	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94		105	100	96	92		97	93	90		94	91	88		91	89	87
3	101	94	88	84		99	92	87	83		90	86	82		87	84	81		85	82	80
4	95	87	81	76		93	86	80	76		84	79	75		82	77	74		80	76	73
5	90	81	74	70		88	80	74	69		78	73	69		76	72	68		75	71	68
6	85	75	69	64		83	74	68	64		73	67	63		71	67	63		70	66	62
7	80	70	64	59		79	69	63	59		68	63	59		67	62	58		66	61	58
8	76	66	59	55		75	65	59	55		64	58	54		63	58	54		62	57	54
9	72	61	55	51		71	61	55	51		60	54	51		59	54	50		58	54	50
10	68	58	52	47		67	57	51	47		57	51	47		56	51	47		55	50	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	311281
5°	310494
10°	310230
15°	300664
20°	273718
25°	238530
30°	198392
35°	157198
40°	113454
45°	71676
50°	37362
55°	19856
60°	10431
65°	5735
70°	2408
75°	2640
80°	1850
85°	1541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 71676 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.0	8.6
10°-20°	1380.2	23.5
20°-30°	1687.1	28.7
30°-40°	1368.9	23.3
40°-50°	682.1	11.6
50°-60°	190.3	3.2
60°-70°	43.2	0.7
70°-80°	11.2	0.2
80°-90°	2.9	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°	3571.4	60.8
0°-40°	4940.2	84.2
0°-60°	5812.6	99.0
0°-90°	5869.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5869.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5330	
5°	5296	504
15°	4973	1380
25°	3702	1687
35°	2205	1369
45°	868	682
55°	195	190
65°	42	43
75°	12	11
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5329.8
2.5°	5325.9
5°	5296.1
7.5°	5278.9
10°	5231.1
12.5°	5134.0
15°	4972.6
17.5°	4720.4
20°	4404.0
22.5°	4062.5
25°	3701.5
27.5°	3315.4
30°	2941.8
32.5°	2572.9
35°	2204.8
37.5°	1837.4
40°	1488.1
42.5°	1160.7
45°	867.8
47.5°	604.6
50°	411.2
52.5°	283.5
55°	195.0
57.5°	131.6
60°	89.3
62.5°	61.9
65°	41.5
67.5°	21.1
70°	14.1
72.5°	13.3
75°	11.7
77.5°	7.8
80°	5.5
82.5°	3.9
85°	2.3
87.5°	1.6
90°	0.0



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— 0°-180°







(END OF REPORT)