

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: P752812

Luminaire Tested: LD4D70BD010-EU4DR6570959040-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P752812
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-EU4DR6570959040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6948.8 lumens
Efficiency: N/A
Efficacy: 104.3 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

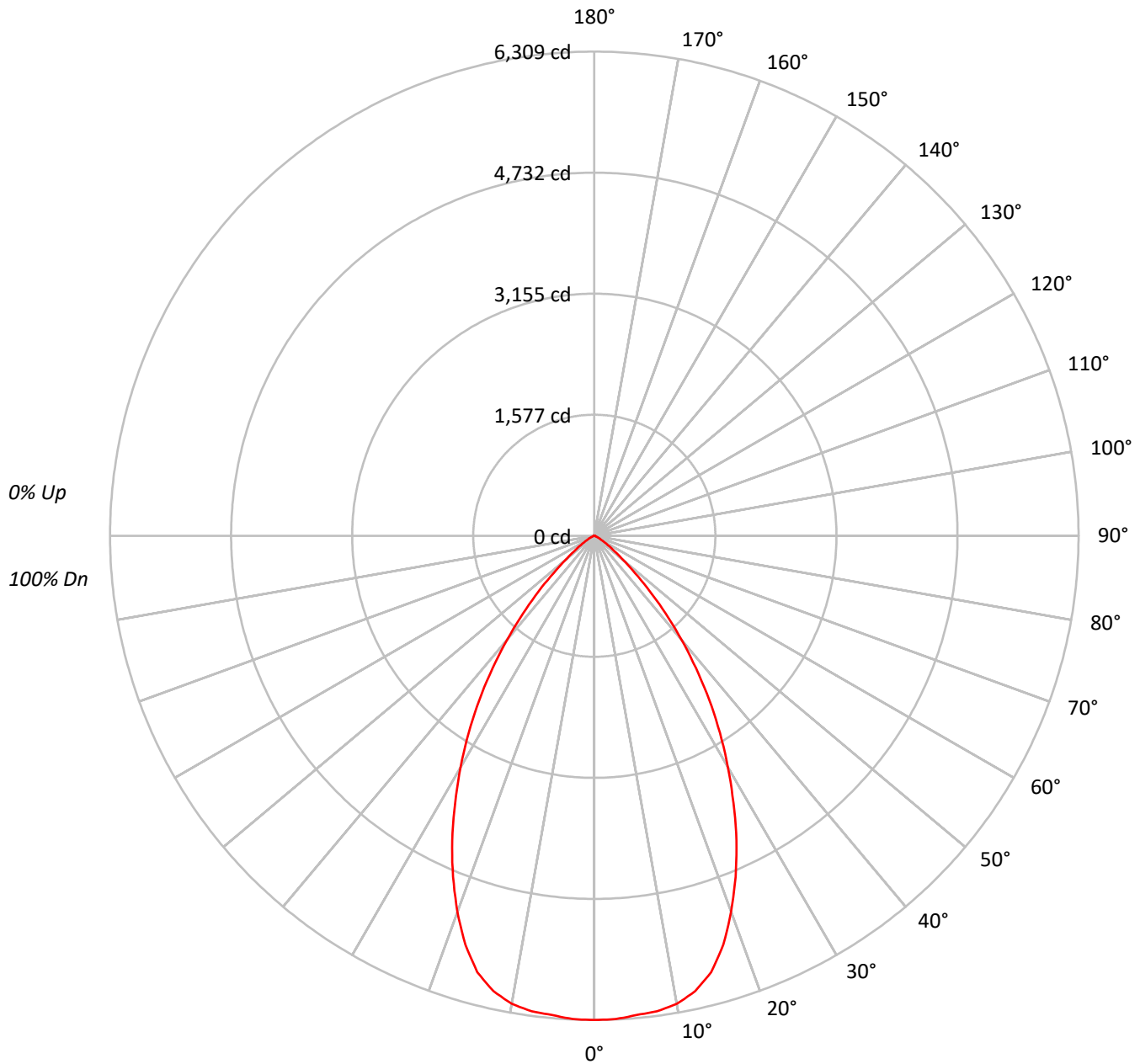


Downlight

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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°	368488
5°	367556
10°	367239
15°	355922
20°	324024
25°	282364
30°	234850
35°	186081
40°	134306
45°	84850
50°	44231
55°	23511
60°	12347
65°	6785
70°	2852
75°	3137
80°	2186
85°	1876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 84850 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.7	8.6
10°-20°	1633.9	23.5
20°-30°	1997.1	28.7
30°-40°	1620.4	23.3
40°-50°	807.5	11.6
50°-60°	225.2	3.2
60°-70°	51.2	0.7
70°-80°	13.3	0.2
80°-90°	3.4	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°	4227.7	60.8
0°-40°	5848.1	84.2
0°-60°	6880.8	99.0
0°-90°	6948.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6948.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6309	
5°	6269	597
15°	5886	1634
25°	4382	1997
35°	2610	1620
45°	1027	808
55°	231	225
65°	49	51
75°	14	13
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6309.3
2.5°	6304.6
5°	6269.4
7.5°	6249.0
10°	6192.4
12.5°	6077.5
15°	5886.5
17.5°	5587.9
20°	5213.4
22.5°	4809.1
25°	4381.7
27.5°	3924.6
30°	3482.4
32.5°	3045.7
35°	2609.9
37.5°	2175.1
40°	1761.6
42.5°	1374.0
45°	1027.3
47.5°	715.8
50°	486.8
52.5°	335.6
55°	230.9
57.5°	155.8
60°	105.7
62.5°	73.2
65°	49.1
67.5°	25.0
70°	16.7
72.5°	15.8
75°	13.9
77.5°	9.3
80°	6.5
82.5°	4.6
85°	2.8
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)