

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: P752808

Luminaire Tested: LD4D70BD010-EU4DR6570959040-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR6570959040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 6601.3 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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

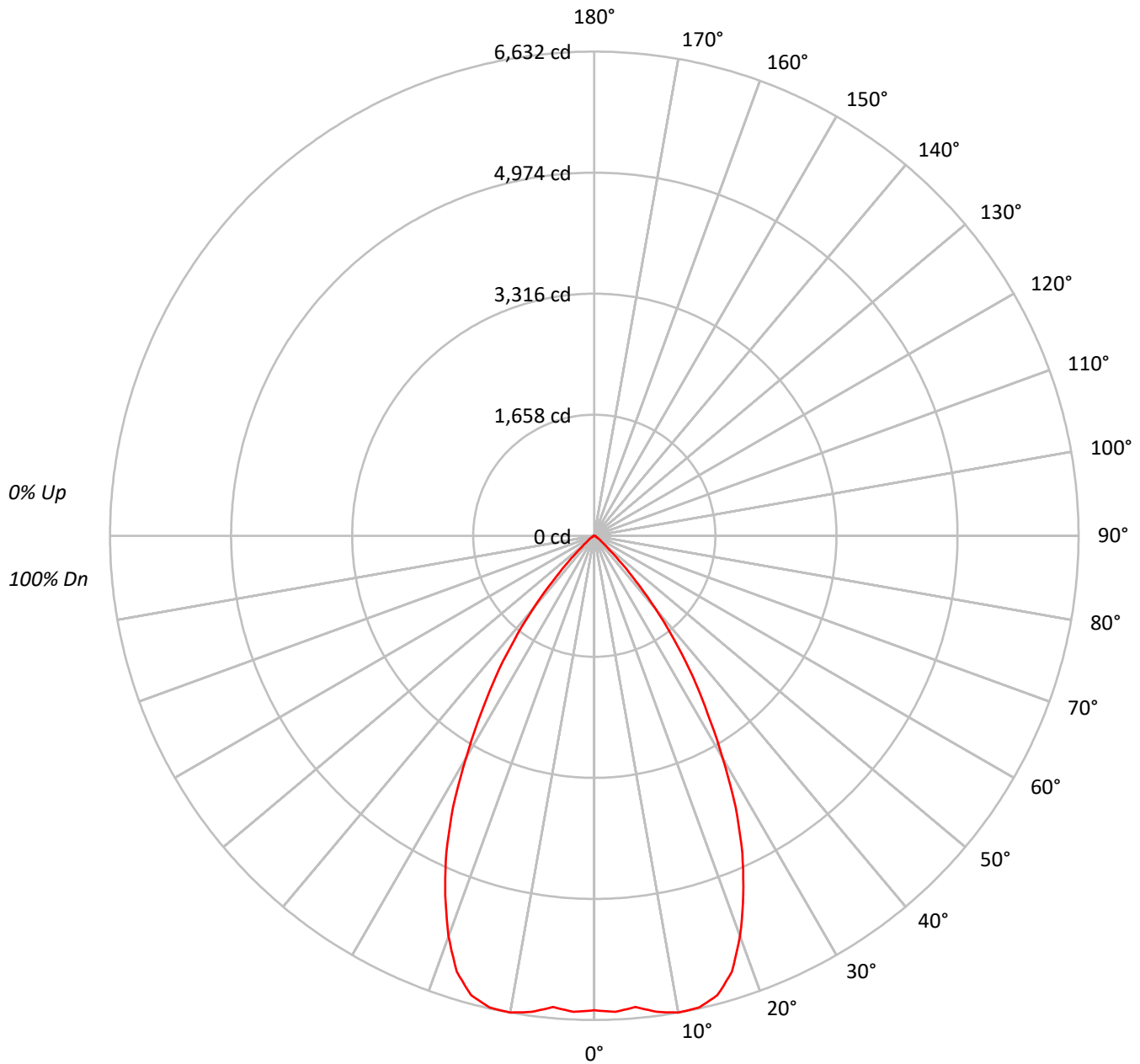


Downlight

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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	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82
5	92	83	78	73	90	83	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	68	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	65	59	55	64	58	55		63	58	55		62
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	710129
5°	710714
10°	735740
15°	736956
20°	678499
25°	578114
30°	442569
35°	312663
40°	184563
45°	74926
50°	27163
55°	15125
60°	8675
65°	4783
70°	5015
75°	3884
80°	4090
85°	3510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 74926 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.8	9.5
10°-20°	1805.3	27.3
20°-30°	2166.0	32.8
30°-40°	1455.6	22.1
40°-50°	435.8	6.6
50°-60°	76.9	1.2
60°-70°	21.9	0.3
70°-80°	10.7	0.2
80°-90°	3.4	0.1
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°	4597.1	69.6
0°-40°	6052.7	91.7
0°-60°	6565.3	99.5
0°-90°	6601.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6601.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6499	
5°	6480	626
15°	6515	1805
25°	4795	2166
35°	2344	1456
45°	485	436
55°	79	77
65°	18	22
75°	9	11
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6499.4
2.5°	6527.1
5°	6480.0
7.5°	6577.9
10°	6631.5
12.5°	6618.6
15°	6515.1
17.5°	6262.1
20°	5835.4
22.5°	5332.9
25°	4795.4
27.5°	4188.6
30°	3507.9
32.5°	2890.9
35°	2344.1
37.5°	1803.8
40°	1294.0
42.5°	845.1
45°	484.9
47.5°	256.8
50°	159.8
52.5°	110.8
55°	79.4
57.5°	57.3
60°	39.7
62.5°	25.9
65°	18.5
67.5°	16.6
70°	15.7
72.5°	12.0
75°	9.2
77.5°	8.3
80°	6.5
82.5°	4.6
85°	2.8
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)