

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: P752810

Luminaire Tested: LD4D70BD010-EU4DR6570959040-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P752810
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-EU4DR6570959040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6144.4 lumens
Efficiency: N/A
Efficacy: 92.3 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 (A_{in}): 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

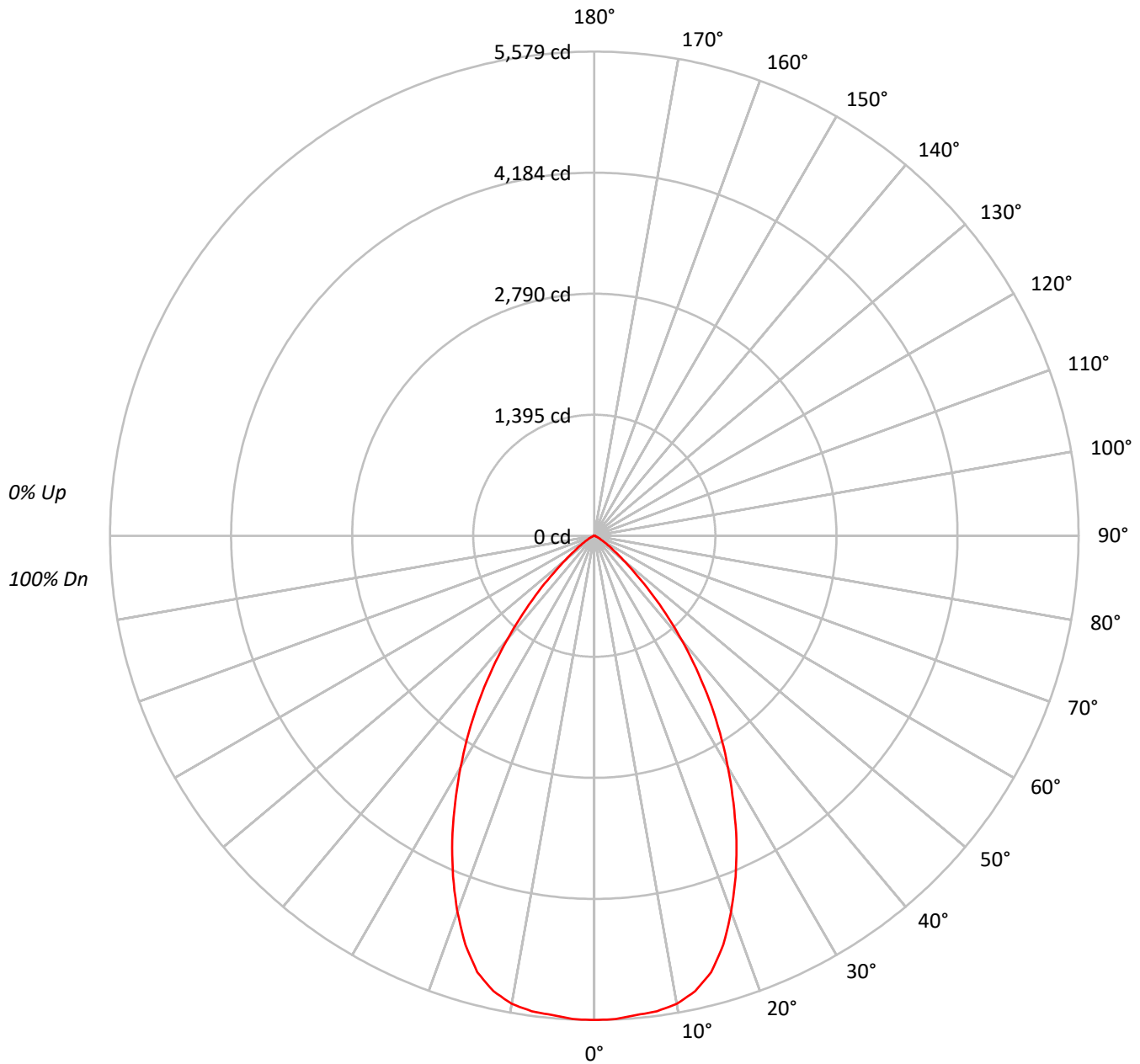


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	325835
5°	325010
10°	324736
15°	314722
20°	286515
25°	249679
30°	207665
35°	164541
40°	118760
45°	75030
50°	39106
55°	20782
60°	10922
65°	6011
70°	2527
75°	2776
80°	1917
85°	1675

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 75030 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.6	8.6
10°-20°	1444.7	23.5
20°-30°	1766.0	28.7
30°-40°	1432.9	23.3
40°-50°	714.0	11.6
50°-60°	199.1	3.2
60°-70°	45.3	0.7
70°-80°	11.8	0.2
80°-90°	3.0	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°	3738.3	60.8
0°-40°	5171.2	84.2
0°-60°	6084.4	99.0
0°-90°	6144.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6144.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5579	
5°	5544	528
15°	5205	1445
25°	3874	1766
35°	2308	1433
45°	908	714
55°	204	199
65°	44	45
75°	12	12
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5579.0
2.5°	5574.9
5°	5543.7
7.5°	5525.7
10°	5475.7
12.5°	5374.0
15°	5205.1
17.5°	4941.1
20°	4609.9
22.5°	4252.5
25°	3874.5
27.5°	3470.4
30°	3079.3
32.5°	2693.2
35°	2307.8
37.5°	1923.3
40°	1557.7
42.5°	1215.0
45°	908.4
47.5°	632.9
50°	430.4
52.5°	296.8
55°	204.1
57.5°	137.7
60°	93.5
62.5°	64.8
65°	43.5
67.5°	22.1
70°	14.8
72.5°	13.9
75°	12.3
77.5°	8.2
80°	5.7
82.5°	4.1
85°	2.5
87.5°	1.6
90°	0.0



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— 0°-180°







(END OF REPORT)