

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: P752886

Luminaire Tested: LD4D70BD010-EU4DR7070959040-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752886
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: LD4D70BD010-EU4DR7070959040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7604.5 lumens
Efficiency: N/A
Efficacy: 114.2 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): 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

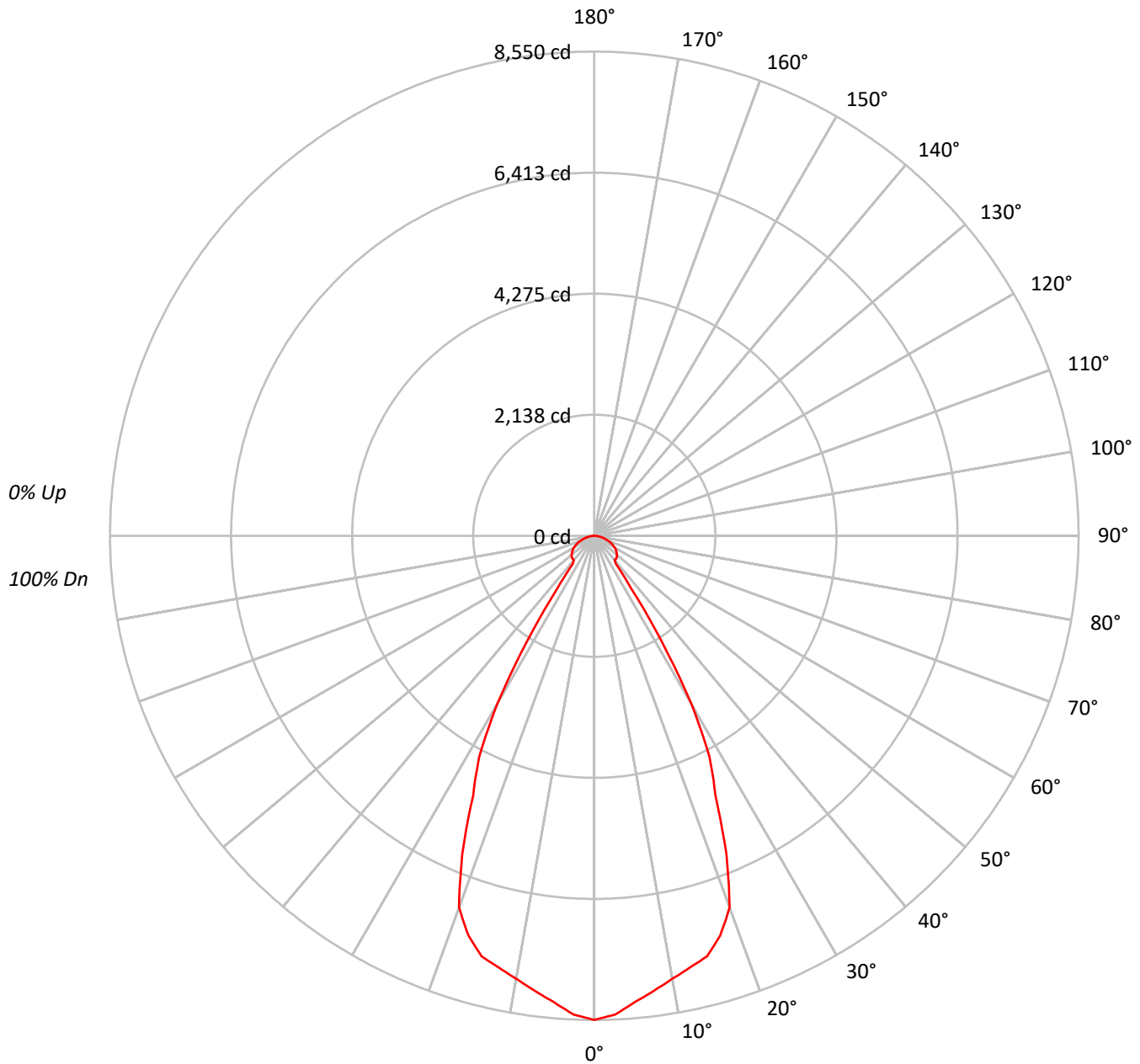


Downlight

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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	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°	934136
5°	906380
10°	881124
15°	869561
20°	811992
25°	610001
30°	431227
35°	152750
40°	80315
45°	85541
50°	88593
55°	90254
60°	90818
65°	88884
70°	83889
75°	77718
80°	68961
85°	56037

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 90837 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	779.5	10.3
10°-20°	2138.1	28.1
20°-30°	2354.8	31.0
30°-40°	899.7	11.8
40°-50°	424.8	5.6
50°-60°	422.3	5.6
60°-70°	338.1	4.4
70°-80°	194.3	2.6
80°-90°	52.8	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°	5272.3	69.3
0°-40°	6172.0	81.2
0°-60°	7019.2	92.3
0°-90°	7604.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7604.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8550	
5°	8264	779
15°	7687	2138
25°	5060	2355
35°	1145	900
45°	554	425
55°	474	422
65°	344	338
75°	184	194
85°	45	53
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8549.6
2.5°	8460.3
5°	8264.0
7.5°	8100.2
10°	7941.9
12.5°	7807.8
15°	7687.4
17.5°	7396.3
20°	6983.5
22.5°	6092.8
25°	5059.9
27.5°	4404.8
30°	3418.0
32.5°	2207.8
35°	1145.2
37.5°	618.6
40°	563.1
42.5°	559.1
45°	553.6
47.5°	541.5
50°	521.2
52.5°	498.1
55°	473.8
57.5°	446.7
60°	415.6
62.5°	380.4
65°	343.8
67.5°	303.2
70°	262.6
72.5°	222.0
75°	184.1
77.5°	144.8
80°	109.6
82.5°	77.2
85°	44.7
87.5°	17.6
90°	0.0



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— 0°-180°







(END OF REPORT)