

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: P753665

Luminaire Tested: LD4D75BD010-EU4DR7070959040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P753665
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: LD4D75BD010-EU4DR7070959040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 7654.7 lumens
Efficiency: N/A
Efficacy: 105.7 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): 72.4
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

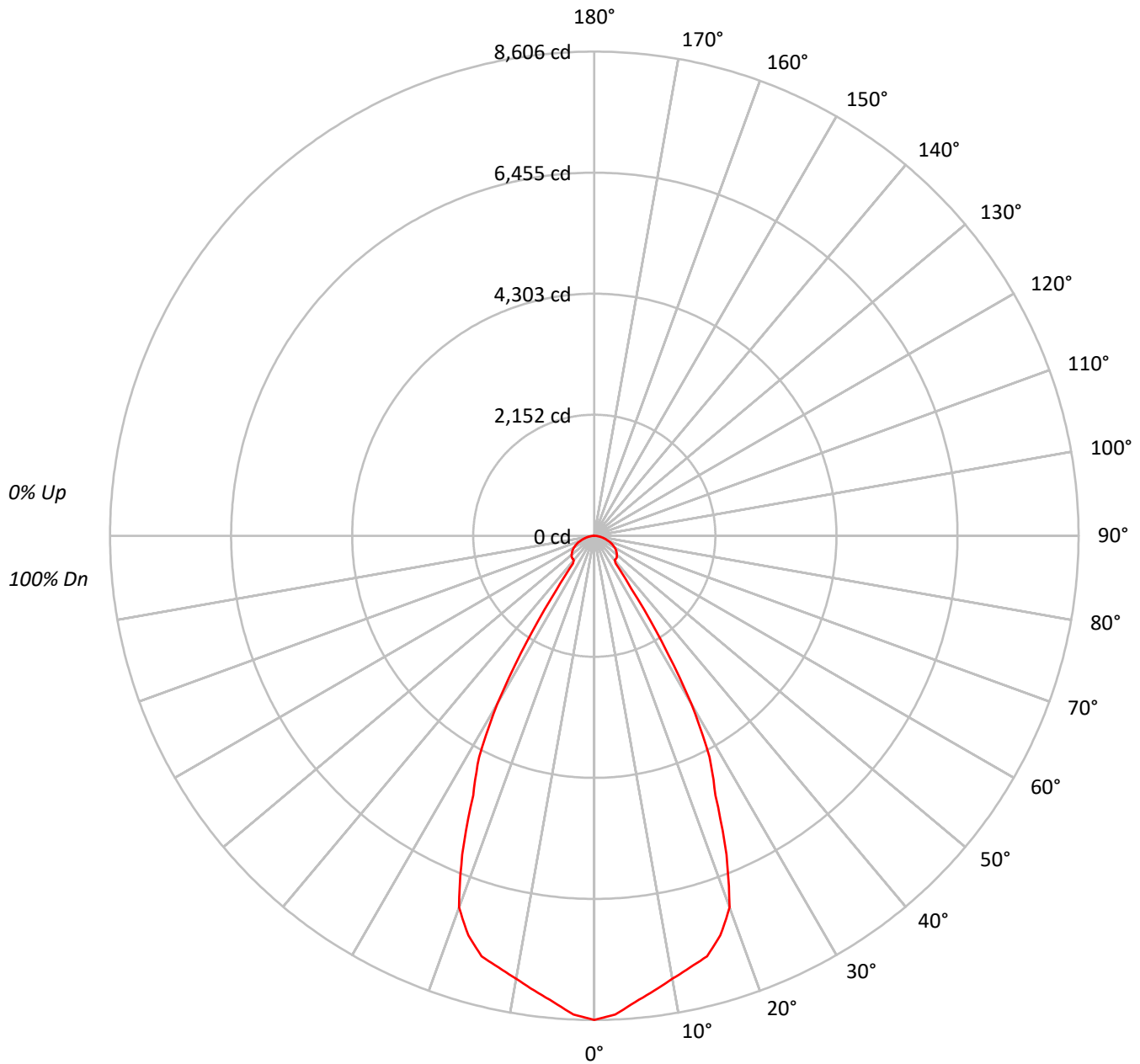


Downlight

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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91						
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83						
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76						
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70						
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65						
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61						
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57						
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53						
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50						
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	940309
5°	912368
10°	886938
15°	875296
20°	817352
25°	614027
30°	434065
35°	153750
40°	80843
45°	86113
50°	89171
55°	90845
60°	91408
65°	89478
70°	84433
75°	78225
80°	69465
85°	56413

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 91447 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.6	10.3
10°-20°	2152.2	28.1
20°-30°	2370.3	31.0
30°-40°	905.6	11.8
40°-50°	427.6	5.6
50°-60°	425.1	5.6
60°-70°	340.4	4.4
70°-80°	195.6	2.6
80°-90°	53.2	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°	5307.1	69.3
0°-40°	6212.8	81.2
0°-60°	7065.5	92.3
0°-90°	7654.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7654.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8606	
5°	8319	785
15°	7738	2152
25°	5093	2370
35°	1153	906
45°	557	428
55°	477	425
65°	346	340
75°	185	196
85°	45	53
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8606.1
2.5°	8516.2
5°	8318.6
7.5°	8153.7
10°	7994.3
12.5°	7859.4
15°	7738.1
17.5°	7445.2
20°	7029.6
22.5°	6133.0
25°	5093.3
27.5°	4433.9
30°	3440.5
32.5°	2222.4
35°	1152.7
37.5°	622.7
40°	566.8
42.5°	562.7
45°	557.3
47.5°	545.0
50°	524.6
52.5°	501.4
55°	476.9
57.5°	449.7
60°	418.3
62.5°	382.9
65°	346.1
67.5°	305.2
70°	264.3
72.5°	223.5
75°	185.3
77.5°	145.8
80°	110.4
82.5°	77.7
85°	45.0
87.5°	17.7
90°	0.0



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— 0°-180°







(END OF REPORT)