

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: P753638

Luminaire Tested: LD4D75BD010-EU4DR7070959030-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P753638
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-EU4DR7070959030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4210.4 lumens
Efficiency: N/A
Efficacy: 58.2 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): 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

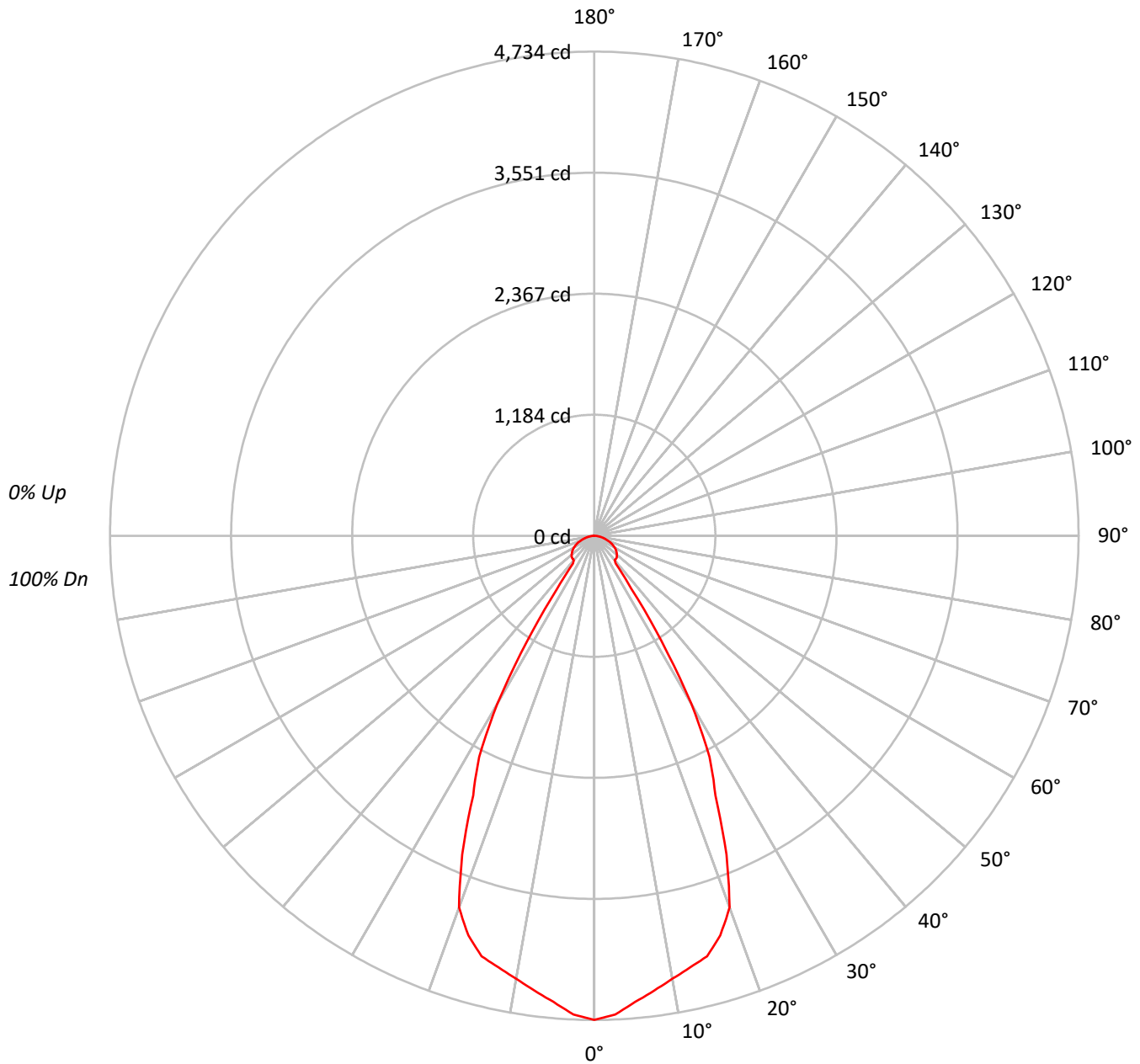


Downlight

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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
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°	517208
5°	501843
10°	487853
15°	481452
20°	449581
25°	337749
30°	238752
35°	84578
40°	44472
45°	47360
50°	49039
55°	49966
60°	50282
65°	49225
70°	46449
75°	43017
80°	38193
85°	30965

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 50289 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.6	10.3
10°-20°	1183.8	28.1
20°-30°	1303.8	31.0
30°-40°	498.1	11.8
40°-50°	235.2	5.6
50°-60°	233.8	5.6
60°-70°	187.2	4.4
70°-80°	107.6	2.6
80°-90°	29.2	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°	2919.2	69.3
0°-40°	3417.3	81.2
0°-60°	3886.3	92.3
0°-90°	4210.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4210.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4734	
5°	4576	432
15°	4256	1184
25°	2802	1304
35°	634	498
45°	306	235
55°	262	234
65°	190	187
75°	102	108
85°	25	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4733.7
2.5°	4684.2
5°	4575.6
7.5°	4484.9
10°	4397.2
12.5°	4323.0
15°	4256.3
17.5°	4095.2
20°	3866.6
22.5°	3373.4
25°	2801.6
27.5°	2438.8
30°	1892.4
32.5°	1222.4
35°	634.1
37.5°	342.5
40°	311.8
42.5°	309.5
45°	306.5
47.5°	299.8
50°	288.5
52.5°	275.8
55°	262.3
57.5°	247.3
60°	230.1
62.5°	210.6
65°	190.4
67.5°	167.9
70°	145.4
72.5°	122.9
75°	101.9
77.5°	80.2
80°	60.7
82.5°	42.7
85°	24.7
87.5°	9.7
90°	0.0



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— 0°-180°







(END OF REPORT)