

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: P753677

Luminaire Tested: LD4D75BD010-EU4DR7070959050-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P753677
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-EU4DR7070959050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4485.5 lumens
Efficiency: N/A
Efficacy: 62.0 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 (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

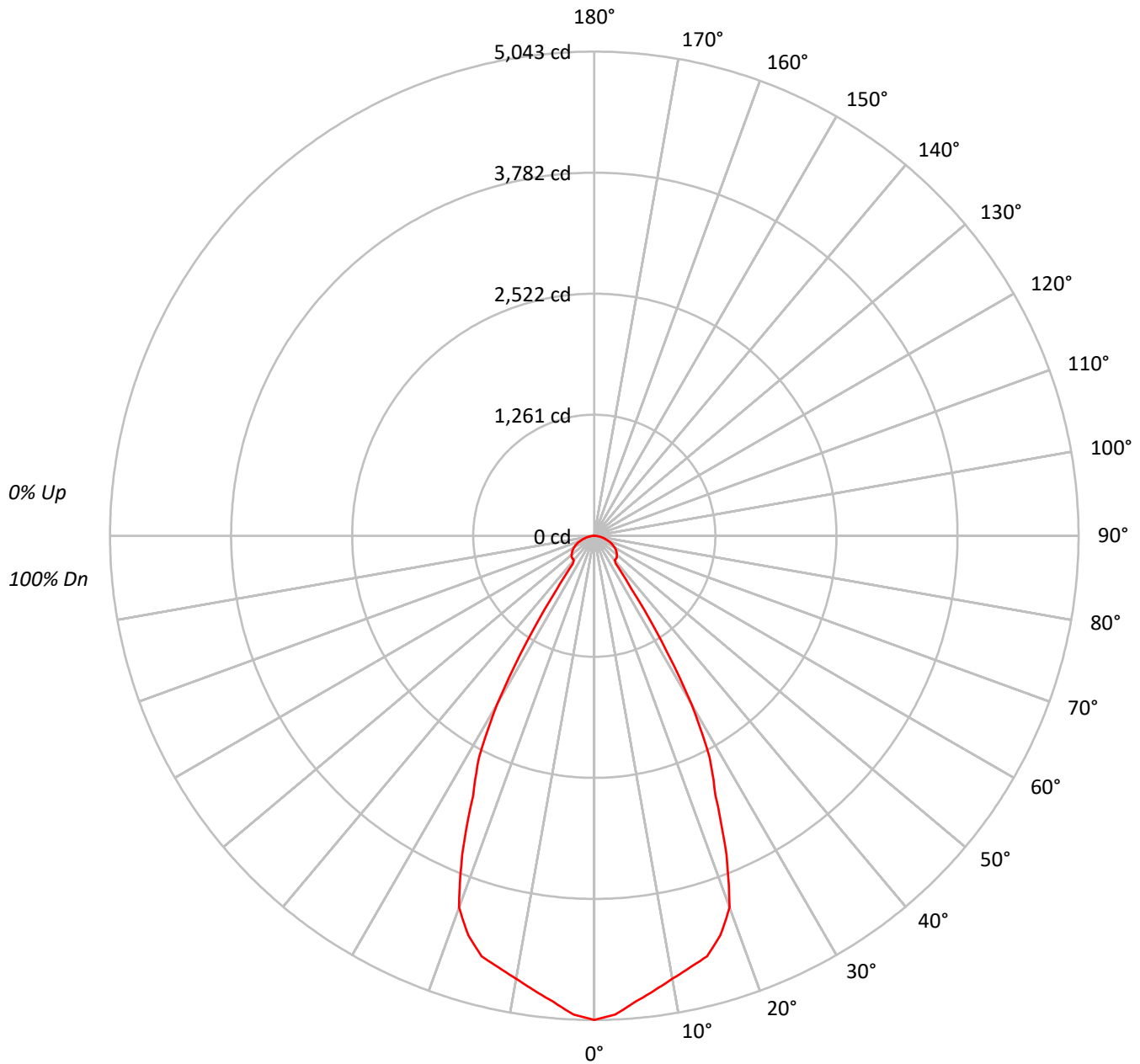


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	551002
5°	534626
10°	519728
15°	512909
20°	478951
25°	359811
30°	254358
35°	90100
40°	47382
45°	50466
50°	52252
55°	53242
60°	53560
65°	52430
70°	49484
75°	45846
80°	40710
85°	32970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 53583 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.8	10.3
10°-20°	1261.1	28.1
20°-30°	1389.0	31.0
30°-40°	530.7	11.8
40°-50°	250.6	5.6
50°-60°	249.1	5.6
60°-70°	199.5	4.4
70°-80°	114.6	2.6
80°-90°	31.2	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°	3109.9	69.3
0°-40°	3640.6	81.2
0°-60°	4140.3	92.3
0°-90°	4485.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4485.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5043	
5°	4874	460
15°	4534	1261
25°	2985	1389
35°	676	531
45°	327	251
55°	280	249
65°	203	199
75°	109	115
85°	26	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5043.0
2.5°	4990.3
5°	4874.5
7.5°	4777.9
10°	4684.5
12.5°	4605.4
15°	4534.4
17.5°	4362.7
20°	4119.2
22.5°	3593.8
25°	2984.6
27.5°	2598.1
30°	2016.1
32.5°	1302.3
35°	675.5
37.5°	364.9
40°	332.2
42.5°	329.8
45°	326.6
47.5°	319.4
50°	307.4
52.5°	293.8
55°	279.5
57.5°	263.5
60°	245.1
62.5°	224.4
65°	202.8
67.5°	178.9
70°	154.9
72.5°	130.9
75°	108.6
77.5°	85.4
80°	64.7
82.5°	45.5
85°	26.3
87.5°	10.4
90°	0.0



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— 0°-180°







(END OF REPORT)