

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: P753667

Luminaire Tested: LD4D75BD010-EU4DR7070959040-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P753667
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-EU4DR7070959040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5979.0 lumens
Efficiency: N/A
Efficacy: 82.6 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

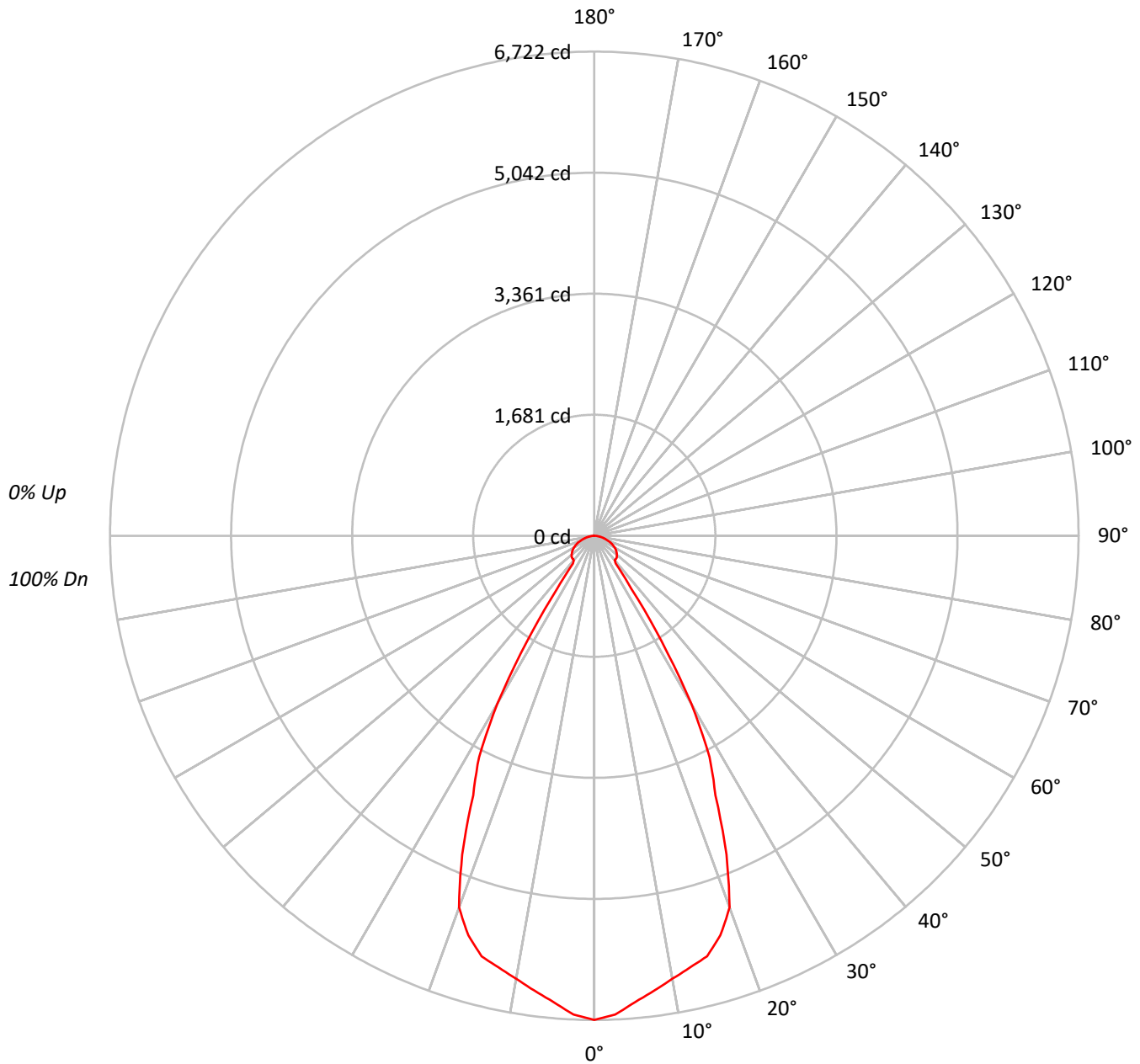


Downlight

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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°	734473
5°	712645
10°	692782
15°	683690
20°	638431
25°	479620
30°	339052
35°	120098
40°	63156
45°	67262
50°	69658
55°	70958
60°	71391
65°	69881
70°	65968
75°	61085
80°	54238
85°	44002

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 71417 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.9	10.3
10°-20°	1681.1	28.1
20°-30°	1851.5	31.0
30°-40°	707.4	11.8
40°-50°	334.0	5.6
50°-60°	332.1	5.6
60°-70°	265.9	4.4
70°-80°	152.8	2.6
80°-90°	41.5	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°	4145.4	69.3
0°-40°	4852.8	81.2
0°-60°	5518.9	92.3
0°-90°	5979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5979.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6722	
5°	6498	613
15°	6044	1681
25°	3978	1851
35°	900	707
45°	435	334
55°	372	332
65°	270	266
75°	145	153
85°	35	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6722.2
2.5°	6651.9
5°	6497.6
7.5°	6368.8
10°	6244.3
12.5°	6138.9
15°	6044.2
17.5°	5815.4
20°	5490.8
22.5°	4790.4
25°	3978.4
27.5°	3463.3
30°	2687.4
32.5°	1735.9
35°	900.4
37.5°	486.4
40°	442.8
42.5°	439.6
45°	435.3
47.5°	425.7
50°	409.8
52.5°	391.7
55°	372.5
57.5°	351.2
60°	326.7
62.5°	299.1
65°	270.3
67.5°	238.4
70°	206.5
72.5°	174.5
75°	144.7
77.5°	113.9
80°	86.2
82.5°	60.7
85°	35.1
87.5°	13.8
90°	0.0



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— 0°-180°







(END OF REPORT)