

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: P753680

Luminaire Tested: LD4D75BD010-EU4DR7070959050-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P753680
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-EU4DR7070959050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6021.8 lumens
Efficiency: N/A
Efficacy: 83.2 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

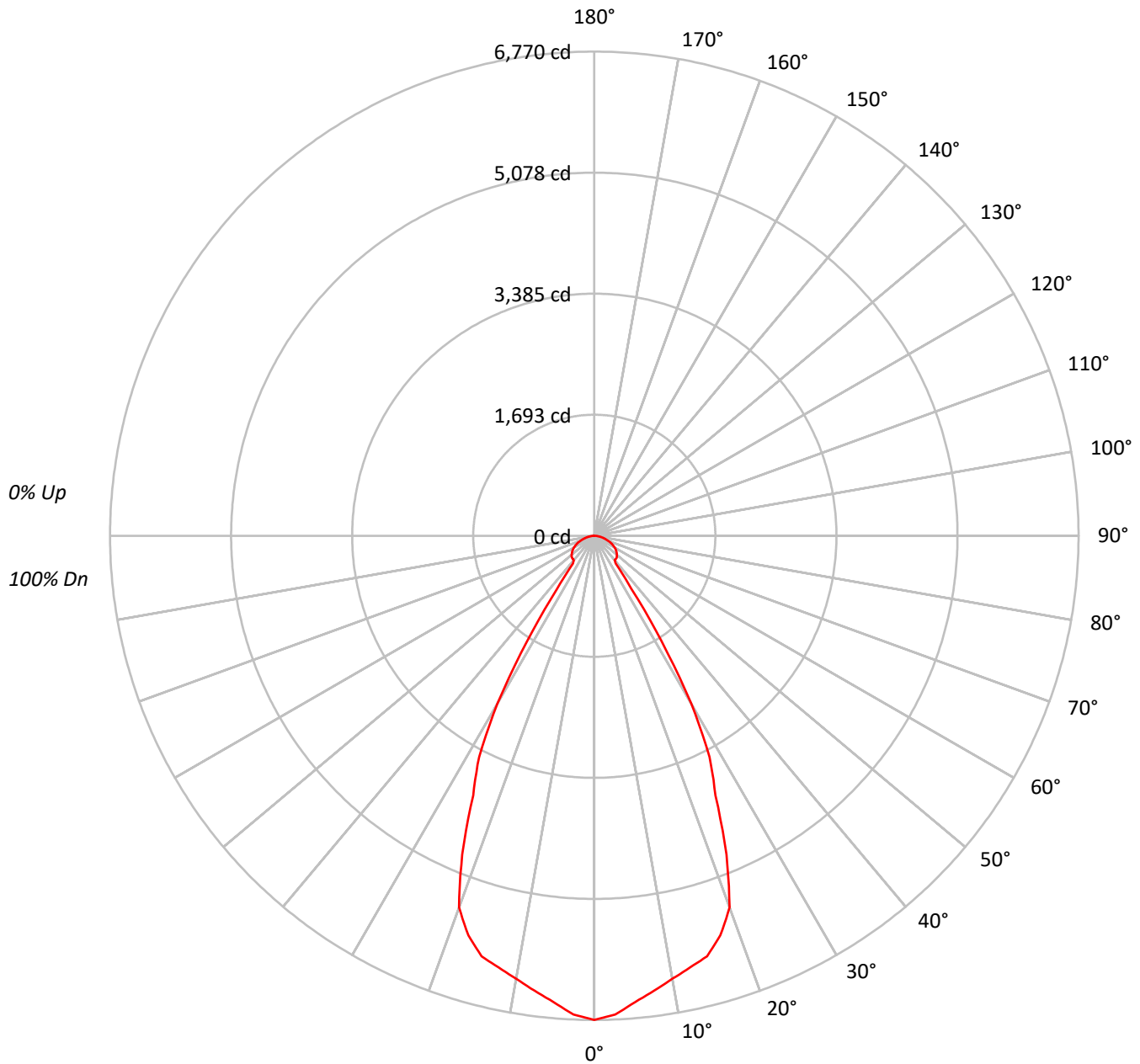


Downlight

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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	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°	739717
5°	717734
10°	697730
15°	688577
20°	642989
25°	483043
30°	341474
35°	120951
40°	63599
45°	67741
50°	70151
55°	71472
60°	71915
65°	70399
70°	66447
75°	61550
80°	54615
85°	44378

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 71925 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.2	10.3
10°-20°	1693.1	28.1
20°-30°	1864.7	31.0
30°-40°	712.4	11.8
40°-50°	336.4	5.6
50°-60°	334.4	5.6
60°-70°	267.8	4.4
70°-80°	153.9	2.6
80°-90°	41.8	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°	4175.0	69.3
0°-40°	4887.4	81.2
0°-60°	5558.3	92.3
0°-90°	6021.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6021.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6770	
5°	6544	617
15°	6087	1693
25°	4007	1865
35°	907	712
45°	438	336
55°	375	334
65°	272	268
75°	146	154
85°	35	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6770.2
2.5°	6699.4
5°	6544.0
7.5°	6414.3
10°	6288.9
12.5°	6182.8
15°	6087.4
17.5°	5856.9
20°	5530.0
22.5°	4824.7
25°	4006.8
27.5°	3488.0
30°	2706.6
32.5°	1748.3
35°	906.8
37.5°	489.9
40°	445.9
42.5°	442.7
45°	438.4
47.5°	428.8
50°	412.7
52.5°	394.5
55°	375.2
57.5°	353.7
60°	329.1
62.5°	301.2
65°	272.3
67.5°	240.1
70°	208.0
72.5°	175.8
75°	145.8
77.5°	114.7
80°	86.8
82.5°	61.1
85°	35.4
87.5°	13.9
90°	0.0



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— 0°-180°







(END OF REPORT)