

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: P752887

Luminaire Tested: LD4D70BD010-EU4DR7070959040-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752887
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: LD4D70BD010-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: 5657.0 lumens
Efficiency: N/A
Efficacy: 84.9 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): 66.6
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

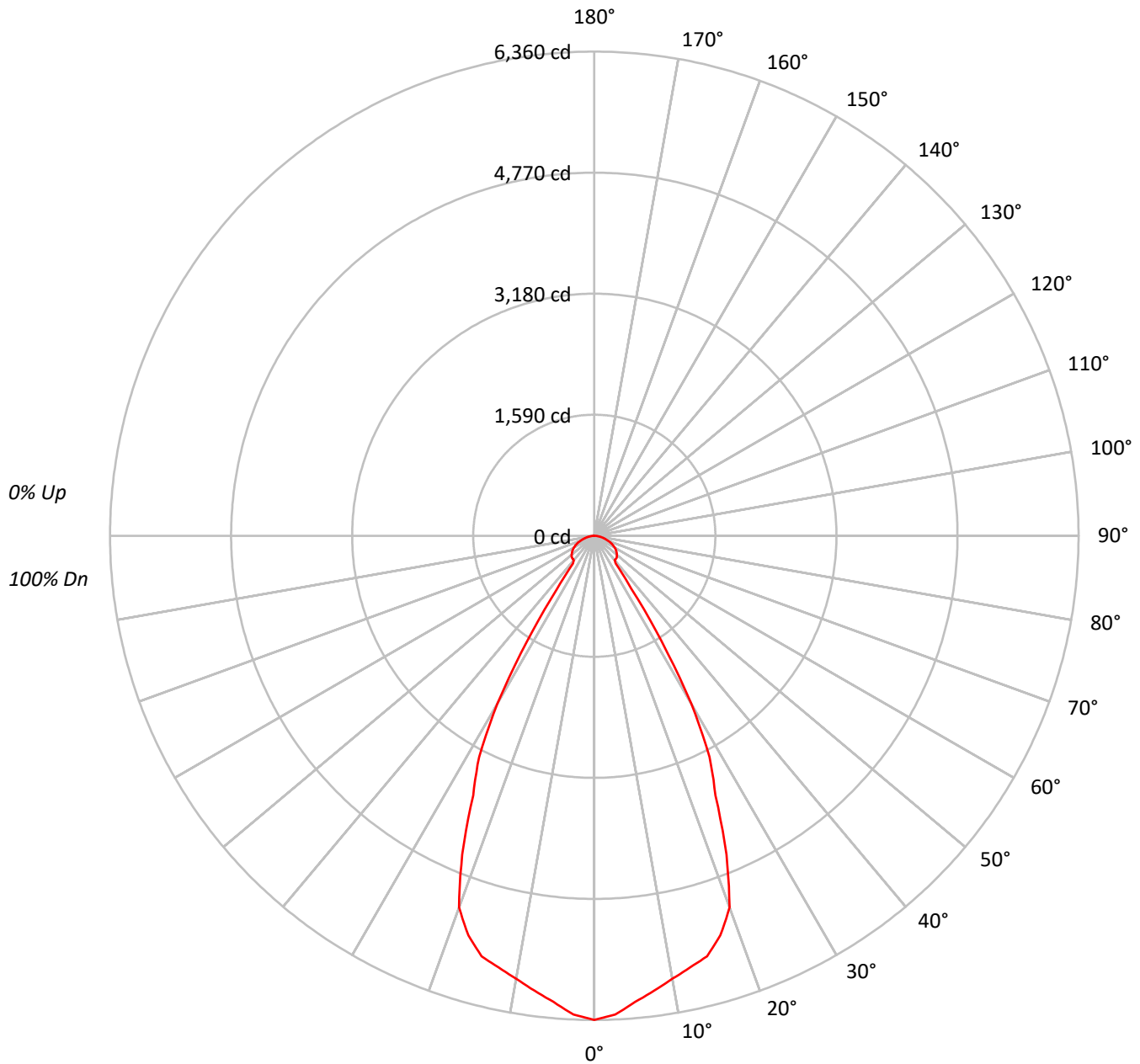


Downlight

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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°	694909
5°	674257
10°	655460
15°	646860
20°	604038
25°	453784
30°	320783
35°	113629
40°	59748
45°	63646
50°	65901
55°	67129
60°	67545
65°	66133
70°	62422
75°	57792
80°	51343
85°	41620

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 67574 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.8	10.3
10°-20°	1590.5	28.1
20°-30°	1751.7	31.0
30°-40°	669.3	11.8
40°-50°	316.0	5.6
50°-60°	314.2	5.6
60°-70°	251.6	4.4
70°-80°	144.5	2.6
80°-90°	39.3	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°	3922.1	69.3
0°-40°	4591.4	81.2
0°-60°	5221.6	92.3
0°-90°	5657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5657.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6360	
5°	6148	580
15°	5719	1590
25°	3764	1752
35°	852	669
45°	412	316
55°	352	314
65°	256	252
75°	137	145
85°	33	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6360.1
2.5°	6293.6
5°	6147.6
7.5°	6025.8
10°	5907.9
12.5°	5808.2
15°	5718.6
17.5°	5502.1
20°	5195.0
22.5°	4532.4
25°	3764.1
27.5°	3276.7
30°	2542.6
32.5°	1642.4
35°	851.9
37.5°	460.2
40°	418.9
42.5°	415.9
45°	411.9
47.5°	402.8
50°	387.7
52.5°	370.6
55°	352.4
57.5°	332.3
60°	309.1
62.5°	283.0
65°	255.8
67.5°	225.6
70°	195.4
72.5°	165.1
75°	136.9
77.5°	107.7
80°	81.6
82.5°	57.4
85°	33.2
87.5°	13.1
90°	0.0



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— 0°-180°







(END OF REPORT)