

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: P752741

Luminaire Tested: LD4D70BD010-EU4DR6070959050-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR6070959050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5706.5 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
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

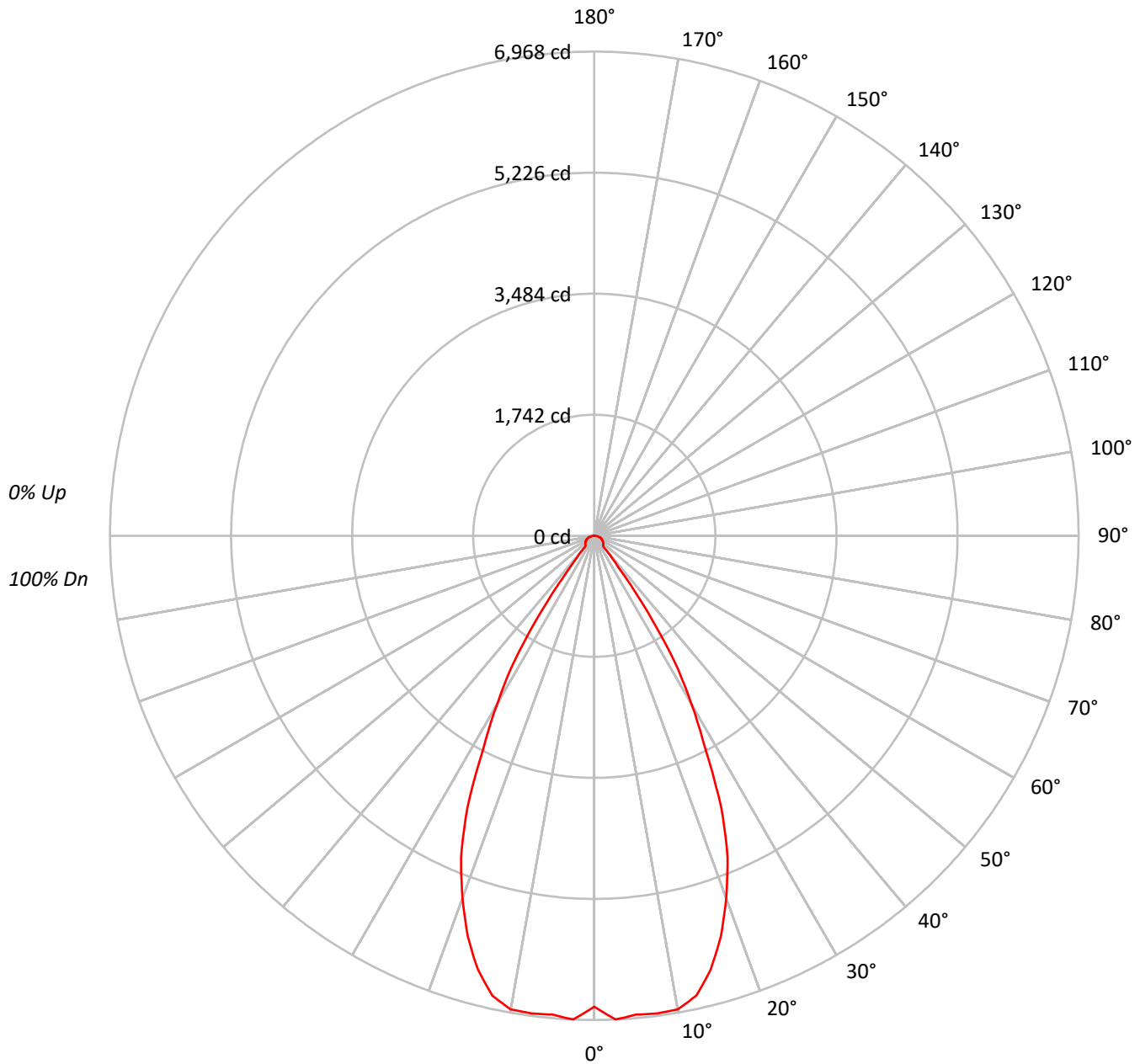


Downlight

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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93		
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86		
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80		
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70		
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66		
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62		
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59		
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55		
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	740482
5°	758687
10°	767859
15°	731481
20°	644942
25°	521645
30°	352854
35°	176812
40°	28683
45°	28076
50°	28642
55°	29069
60°	29872
65°	30559
70°	31275
75°	31661
80°	30517
85°	25449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 31661 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.1	11.6
10°-20°	1788.7	31.3
20°-30°	1924.5	33.7
30°-40°	836.6	14.7
40°-50°	140.5	2.5
50°-60°	136.6	2.4
60°-70°	116.9	2.0
70°-80°	78.2	1.4
80°-90°	23.4	0.4
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°	4374.4	76.7
0°-40°	5210.9	91.3
0°-60°	5488.1	96.2
0°-90°	5706.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5706.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6777	
5°	6917	661
15°	6467	1789
25°	4327	1925
35°	1326	837
45°	182	141
55°	153	137
65°	118	117
75°	75	78
85°	20	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6777.2
2.5°	6967.7
5°	6917.4
7.5°	6933.3
10°	6921.0
12.5°	6778.1
15°	6466.7
17.5°	6048.7
20°	5546.8
22.5°	5009.7
25°	4327.0
27.5°	3460.9
30°	2796.8
32.5°	2155.6
35°	1325.6
37.5°	567.1
40°	201.1
42.5°	185.2
45°	181.7
47.5°	175.5
50°	168.5
52.5°	160.5
55°	152.6
57.5°	144.6
60°	136.7
62.5°	127.9
65°	118.2
67.5°	108.5
70°	97.9
72.5°	86.4
75°	75.0
77.5°	61.7
80°	48.5
82.5°	34.4
85°	20.3
87.5°	7.1
90°	0.0



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— 0°-180°







(END OF REPORT)