

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: P752847

Luminaire Tested: LD4D70BD010-EU4DR7070959027-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752847
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-EU4DR7070959027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6978.2 lumens
Efficiency: N/A
Efficacy: 104.8 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

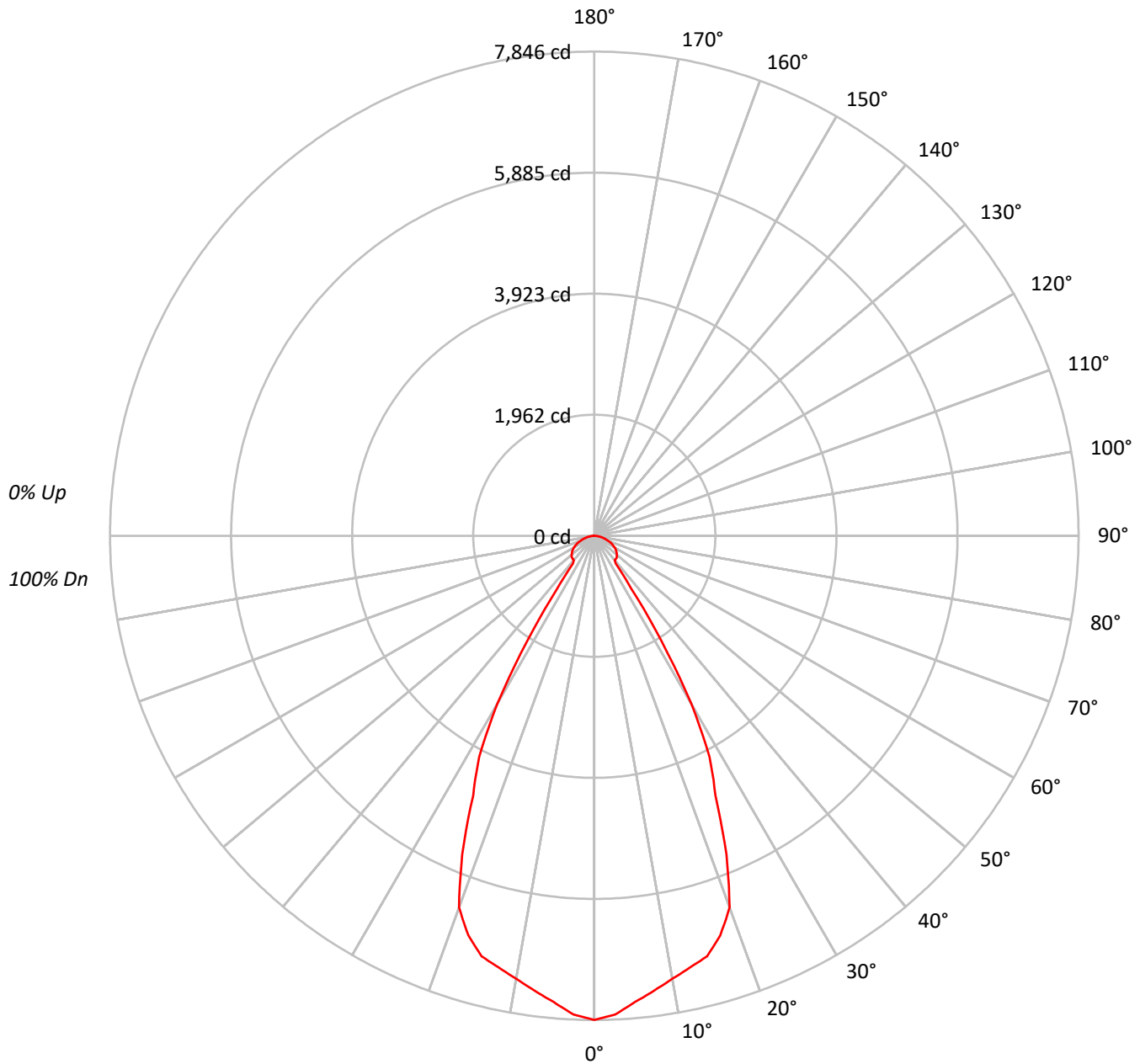


Downlight

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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					0
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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76		
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70		
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65		
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61		
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57		
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50		
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	857216
5°	831744
10°	808554
15°	797948
20°	745123
25°	559765
30°	395712
35°	140172
40°	73697
45°	78495
50°	81284
55°	82825
60°	83322
65°	81567
70°	76989
75°	71301
80°	63298
85°	51399

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 83354 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.3	10.3
10°-20°	1962.0	28.1
20°-30°	2160.9	31.0
30°-40°	825.6	11.8
40°-50°	389.8	5.6
50°-60°	387.5	5.6
60°-70°	310.3	4.4
70°-80°	178.3	2.6
80°-90°	48.5	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°	4838.1	69.3
0°-40°	5663.7	81.2
0°-60°	6441.1	92.3
0°-90°	6978.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6978.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7846	
5°	7584	715
15°	7054	1962
25°	4643	2161
35°	1051	826
45°	508	390
55°	435	388
65°	316	310
75°	169	178
85°	41	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7845.6
2.5°	7763.6
5°	7583.5
7.5°	7433.2
10°	7287.8
12.5°	7164.8
15°	7054.3
17.5°	6787.2
20°	6408.4
22.5°	5591.0
25°	4643.2
27.5°	4042.0
30°	3136.5
32.5°	2026.0
35°	1050.9
37.5°	567.7
40°	516.7
42.5°	513.0
45°	508.0
47.5°	496.9
50°	478.2
52.5°	457.1
55°	434.8
57.5°	409.9
60°	381.3
62.5°	349.1
65°	315.5
67.5°	278.2
70°	241.0
72.5°	203.7
75°	168.9
77.5°	132.9
80°	100.6
82.5°	70.8
85°	41.0
87.5°	16.1
90°	0.0



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— 0°-180°







(END OF REPORT)