

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: P752885

Luminaire Tested: LD4D70BD010-EU4DR7070959040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752885
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-EU4DR7070959040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7242.4 lumens
Efficiency: N/A
Efficacy: 108.7 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

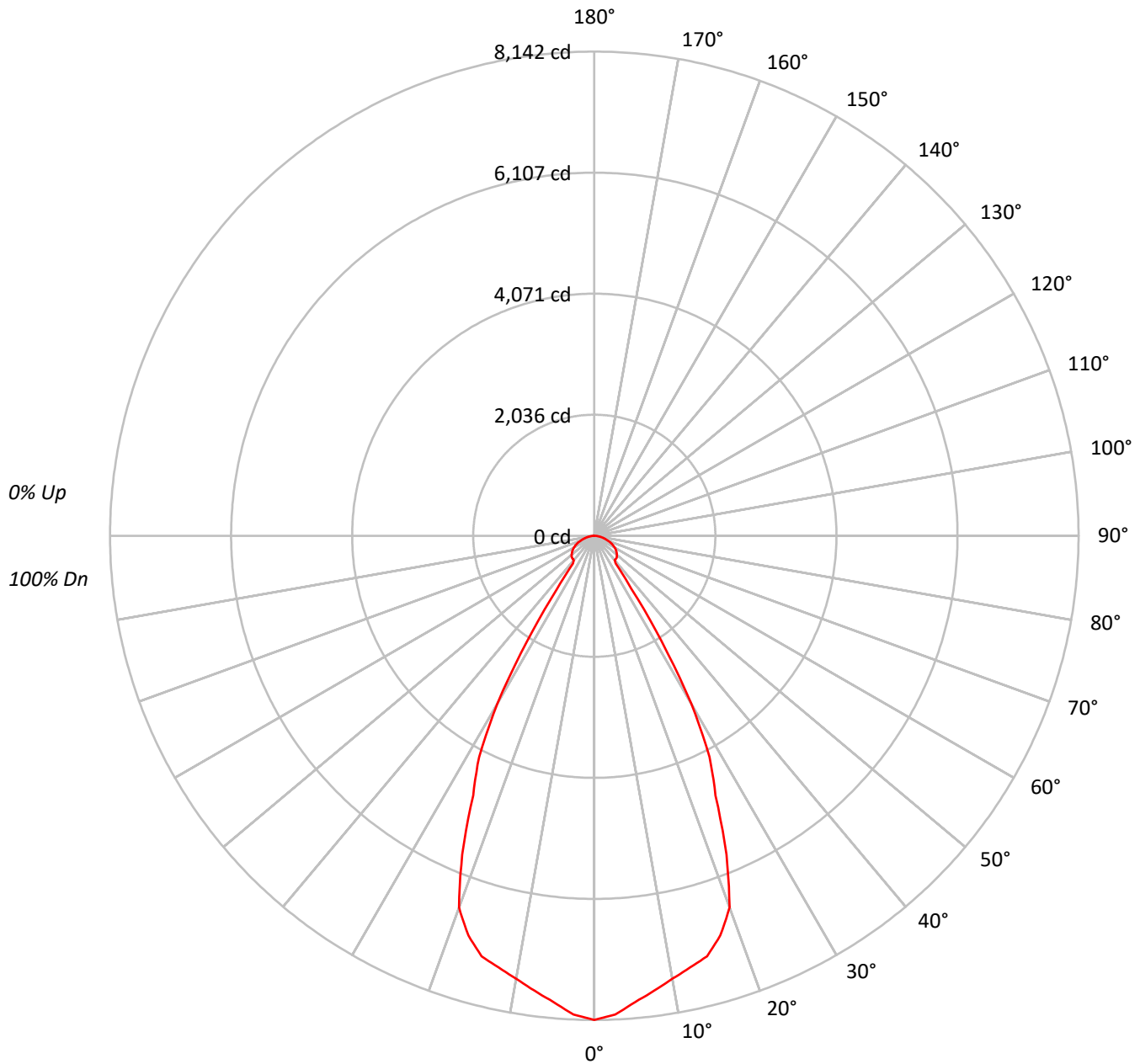


Downlight

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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°	889656
5°	863222
10°	839164
15°	828149
20°	773319
25°	580959
30°	410687
35°	145481
40°	76492
45°	81477
50°	84361
55°	85949
60°	86491
65°	84670
70°	79896
75°	74003
80°	65689
85°	53279

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 86506 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	742.4	10.3
10°-20°	2036.2	28.1
20°-30°	2242.6	31.0
30°-40°	856.9	11.8
40°-50°	404.6	5.6
50°-60°	402.2	5.6
60°-70°	322.1	4.4
70°-80°	185.1	2.6
80°-90°	50.3	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°	5021.2	69.3
0°-40°	5878.1	81.2
0°-60°	6684.9	92.3
0°-90°	7242.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7242.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8142	
5°	7870	742
15°	7321	2036
25°	4819	2243
35°	1091	857
45°	527	405
55°	451	402
65°	328	322
75°	175	185
85°	42	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8142.5
2.5°	8057.4
5°	7870.5
7.5°	7714.5
10°	7563.7
12.5°	7436.0
15°	7321.3
17.5°	7044.1
20°	6650.9
22.5°	5802.6
25°	4819.0
27.5°	4195.0
30°	3255.2
32.5°	2102.7
35°	1090.7
37.5°	589.2
40°	536.3
42.5°	532.4
45°	527.3
47.5°	515.7
50°	496.3
52.5°	474.4
55°	451.2
57.5°	425.4
60°	395.8
62.5°	362.3
65°	327.5
67.5°	288.8
70°	250.1
72.5°	211.4
75°	175.3
77.5°	137.9
80°	104.4
82.5°	73.5
85°	42.5
87.5°	16.8
90°	0.0



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— 0°-180°







(END OF REPORT)