

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: P752429

Luminaire Tested: LD4D70BD010-EU4DR4070959050-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR4070959050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6722.8 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
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

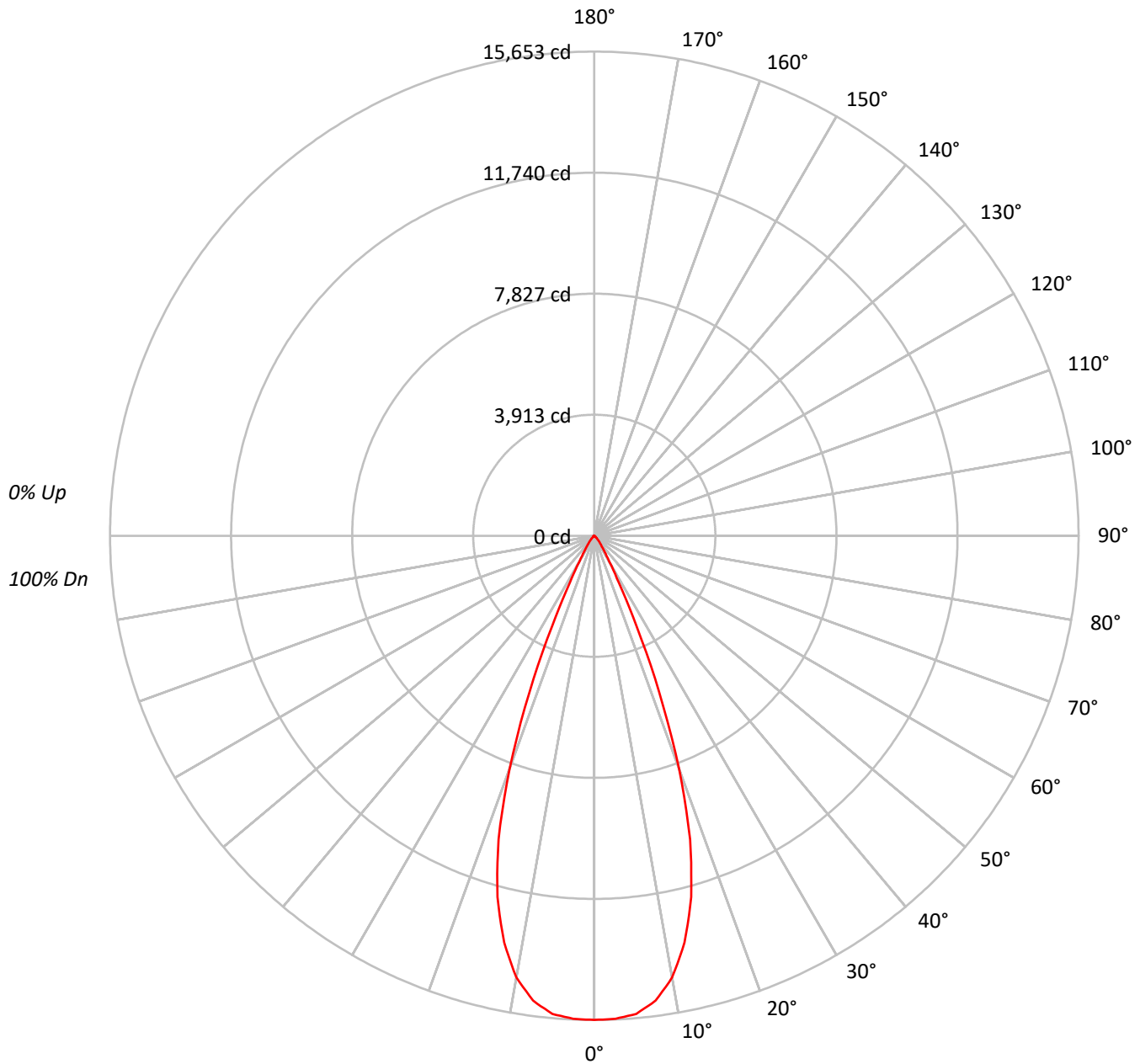


Downlight

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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96						
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92						
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88						
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84						
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81						
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77						
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74						
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72						
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69						
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1710215
5°	1701897
10°	1608666
15°	1367572
20°	932101
25°	388913
30°	122290
35°	56834
40°	31436
45°	14417
50°	6986
55°	3829
60°	1989
65°	698
70°	288
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14417 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1448.9	21.6
10°-20°	3246.0	48.3
20°-30°	1624.8	24.2
30°-40°	297.9	4.4
40°-50°	82.2	1.2
50°-60°	19.3	0.3
60°-70°	3.7	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	6319.7	94.0
0°-40°	6617.6	98.4
0°-60°	6719.0	99.9
0°-90°	6722.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6722.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15653	
5°	15517	###
15°	12090	3246
25°	3226	1625
35°	426	298
45°	93	82
55°	20	19
65°	3	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15652.6
2.5°	15629.7
5°	15517.2
7.5°	15158.8
10°	14499.5
12.5°	13471.7
15°	12090.1
17.5°	10293.3
20°	8016.5
22.5°	5465.3
25°	3226.0
27.5°	1705.3
30°	969.3
32.5°	626.4
35°	426.1
37.5°	304.5
40°	220.4
42.5°	150.9
45°	93.3
47.5°	59.4
50°	41.1
52.5°	29.3
55°	20.1
57.5°	12.8
60°	9.1
62.5°	5.5
65°	2.7
67.5°	1.8
70°	0.9
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)