

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: P752871

Luminaire Tested: LD4D70BD010-EU4DR7070959035-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752871
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-EU4DR7070959035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4025.5 lumens
Efficiency: N/A
Efficacy: 60.4 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

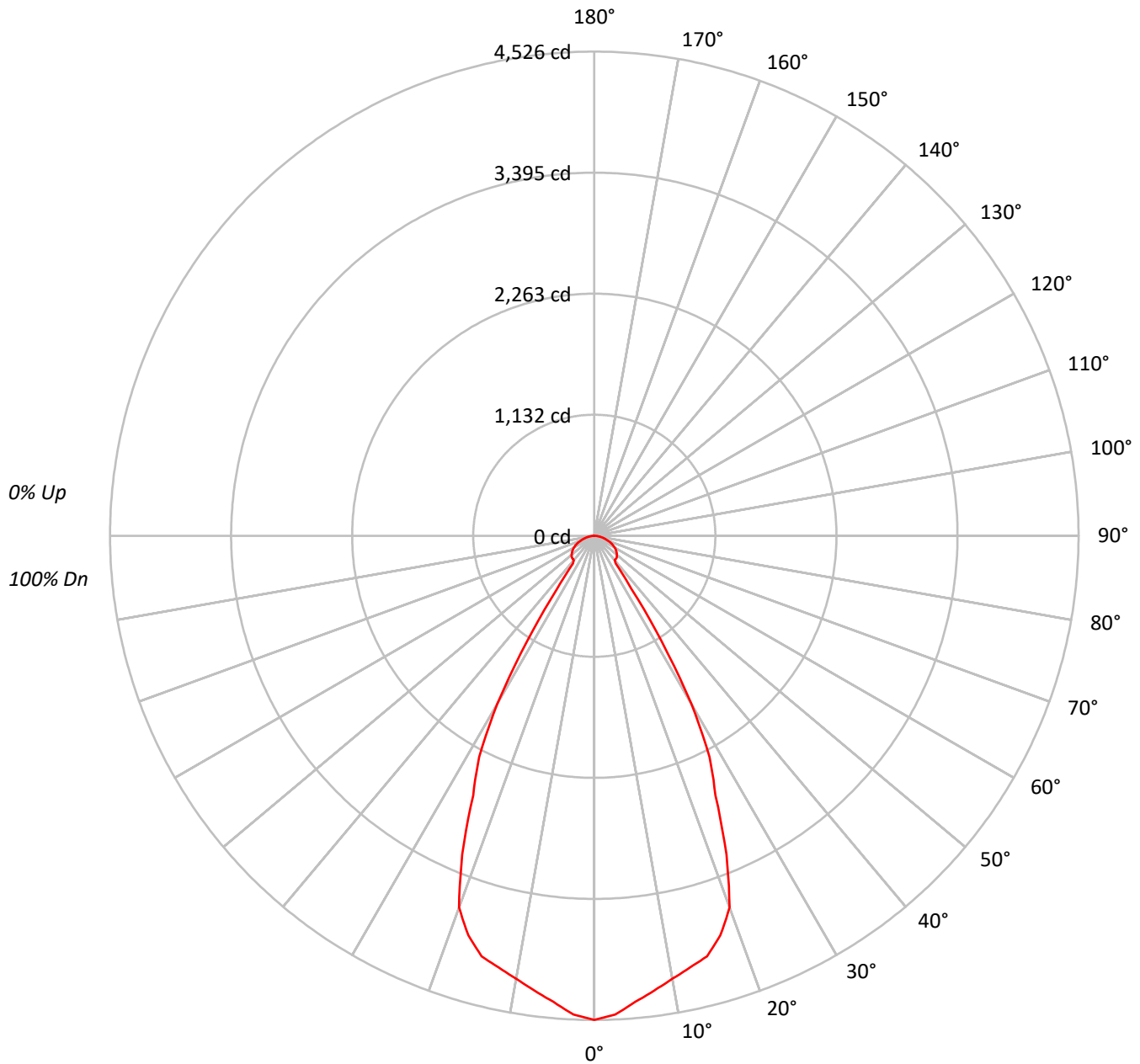


Downlight

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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				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	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°	494503
5°	479809
10°	466440
15°	460310
20°	429838
25°	322921
30°	228280
35°	80857
40°	42518
45°	45289
50°	46897
55°	47775
60°	48075
65°	47053
70°	44405
75°	41160
80°	36494
85°	29586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 48093 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.6	10.3
10°-20°	1131.8	28.1
20°-30°	1246.5	31.0
30°-40°	476.3	11.8
40°-50°	224.9	5.6
50°-60°	223.6	5.6
60°-70°	179.0	4.4
70°-80°	102.9	2.6
80°-90°	27.9	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°	2791.0	69.3
0°-40°	3267.3	81.2
0°-60°	3715.7	92.3
0°-90°	4025.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4025.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4526	
5°	4375	413
15°	4069	1132
25°	2679	1247
35°	606	476
45°	293	225
55°	251	224
65°	182	179
75°	98	103
85°	24	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4525.9
2.5°	4478.6
5°	4374.7
7.5°	4288.0
10°	4204.2
12.5°	4133.2
15°	4069.4
17.5°	3915.4
20°	3696.8
22.5°	3225.3
25°	2678.6
27.5°	2331.7
30°	1809.4
32.5°	1168.7
35°	606.2
37.5°	327.5
40°	298.1
42.5°	295.9
45°	293.1
47.5°	286.6
50°	275.9
52.5°	263.7
55°	250.8
57.5°	236.5
60°	220.0
62.5°	201.4
65°	182.0
67.5°	160.5
70°	139.0
72.5°	117.5
75°	97.5
77.5°	76.7
80°	58.0
82.5°	40.8
85°	23.6
87.5°	9.3
90°	0.0



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— 0°-180°







(END OF REPORT)