

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: P752312

Luminaire Tested: LD4D70BD010-EU4DR3570959030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR3570959030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5607.8 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (A_{in}): 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

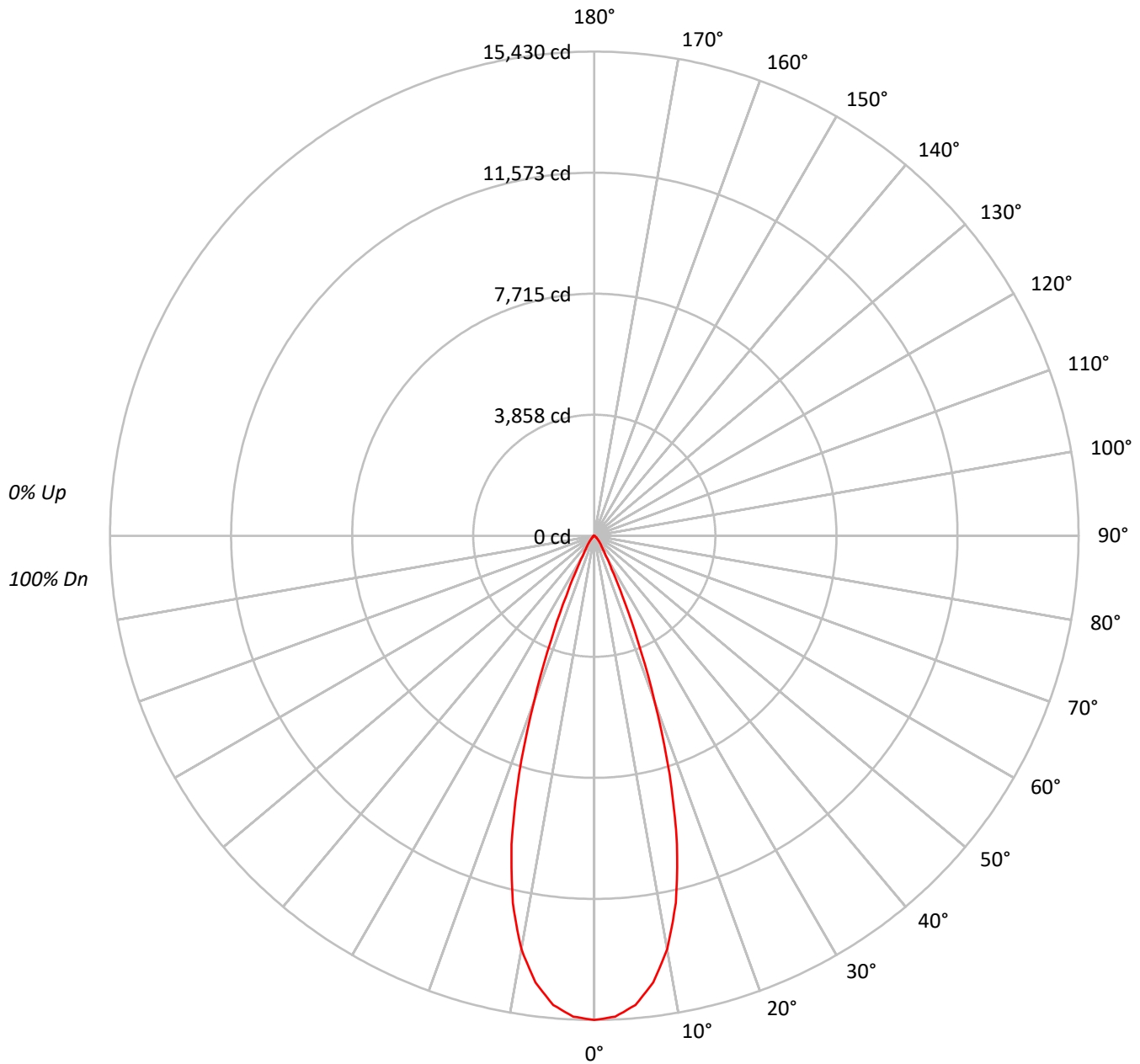


Downlight

TEST NUMBER: P752312

CATALOG NUMBER: LD4D70BD010-EU4DR3570959030-4LBDP1B

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1685904
5°	1646290
10°	1483740
15°	1151624
20°	653186
25°	254120
30°	94799
35°	51966
40°	33960
45°	20675
50°	13156
55°	9296
60°	6796
65°	3697
70°	256
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20675 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1380.5	24.6
10°-20°	2695.3	48.1
20°-30°	1099.3	19.6
30°-40°	263.0	4.7
40°-50°	109.6	2.0
50°-60°	45.4	0.8
60°-70°	14.2	0.3
70°-80°	0.3	0.0
80°-90°	0.2	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°	5175.1	92.3
0°-40°	5438.1	97.0
0°-60°	5593.1	99.7
0°-90°	5607.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5607.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15430	
5°	15010	###
15°	10181	2695
25°	2108	1099
35°	390	263
45°	134	110
55°	49	45
65°	14	14
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15430.1
2.5°	15337.5
5°	15010.2
7.5°	14357.2
10°	13373.5
12.5°	11988.5
15°	10181.0
17.5°	7970.4
20°	5617.7
22.5°	3582.2
25°	2107.9
27.5°	1191.5
30°	751.4
32.5°	527.6
35°	389.6
37.5°	301.2
40°	238.1
42.5°	183.4
45°	133.8
47.5°	100.1
50°	77.4
52.5°	61.4
55°	48.8
57.5°	39.5
60°	31.1
62.5°	22.7
65°	14.3
67.5°	5.0
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)