

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: P752394

Luminaire Tested: LD4D70BD010-EU4DR4070959030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752394
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-EU4DR4070959030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6999.9 lumens
Efficiency: N/A
Efficacy: 105.1 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

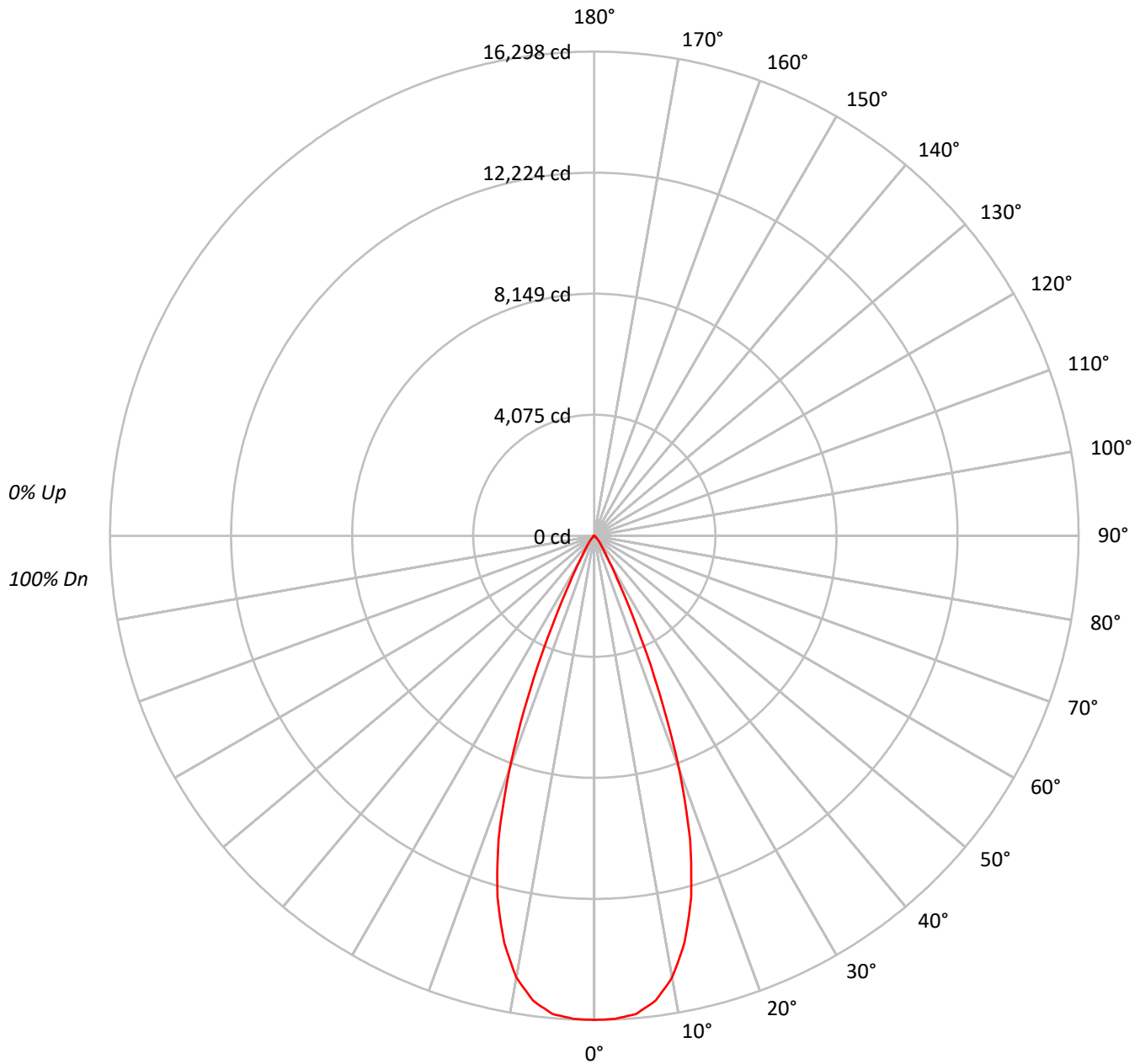


Downlight

TEST NUMBER: P752394

CATALOG NUMBER: LD4D70BD010-EU4DR4070959030-4LBS1B

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1780688
5°	1772036
10°	1674956
15°	1423926
20°	970506
25°	404935
30°	127324
35°	59182
40°	32719
45°	15004
50°	7275
55°	3981
60°	2076
65°	750
70°	319
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15004 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1508.6	21.6
10°-20°	3379.7	48.3
20°-30°	1691.8	24.2
30°-40°	310.1	4.4
40°-50°	85.6	1.2
50°-60°	20.1	0.3
60°-70°	3.9	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°	6580.1	94.0
0°-40°	6890.2	98.4
0°-60°	6995.9	99.9
0°-90°	6999.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6999.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16298	
5°	16157	###
15°	12588	3380
25°	3359	1692
35°	444	310
45°	97	86
55°	21	20
65°	3	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16297.6
2.5°	16273.8
5°	16156.7
7.5°	15783.4
10°	15097.0
12.5°	14026.9
15°	12588.3
17.5°	10717.5
20°	8346.8
22.5°	5690.5
25°	3358.9
27.5°	1775.6
30°	1009.2
32.5°	652.2
35°	443.7
37.5°	317.0
40°	229.4
42.5°	157.1
45°	97.1
47.5°	61.9
50°	42.8
52.5°	30.5
55°	20.9
57.5°	13.3
60°	9.5
62.5°	5.7
65°	2.9
67.5°	1.9
70°	1.0
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)