

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: P752338

Luminaire Tested: LD4D70BD010-EU4DR3570959040-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752338
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-EU4DR3570959040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5931.9 lumens
Efficiency: N/A
Efficacy: 89.1 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

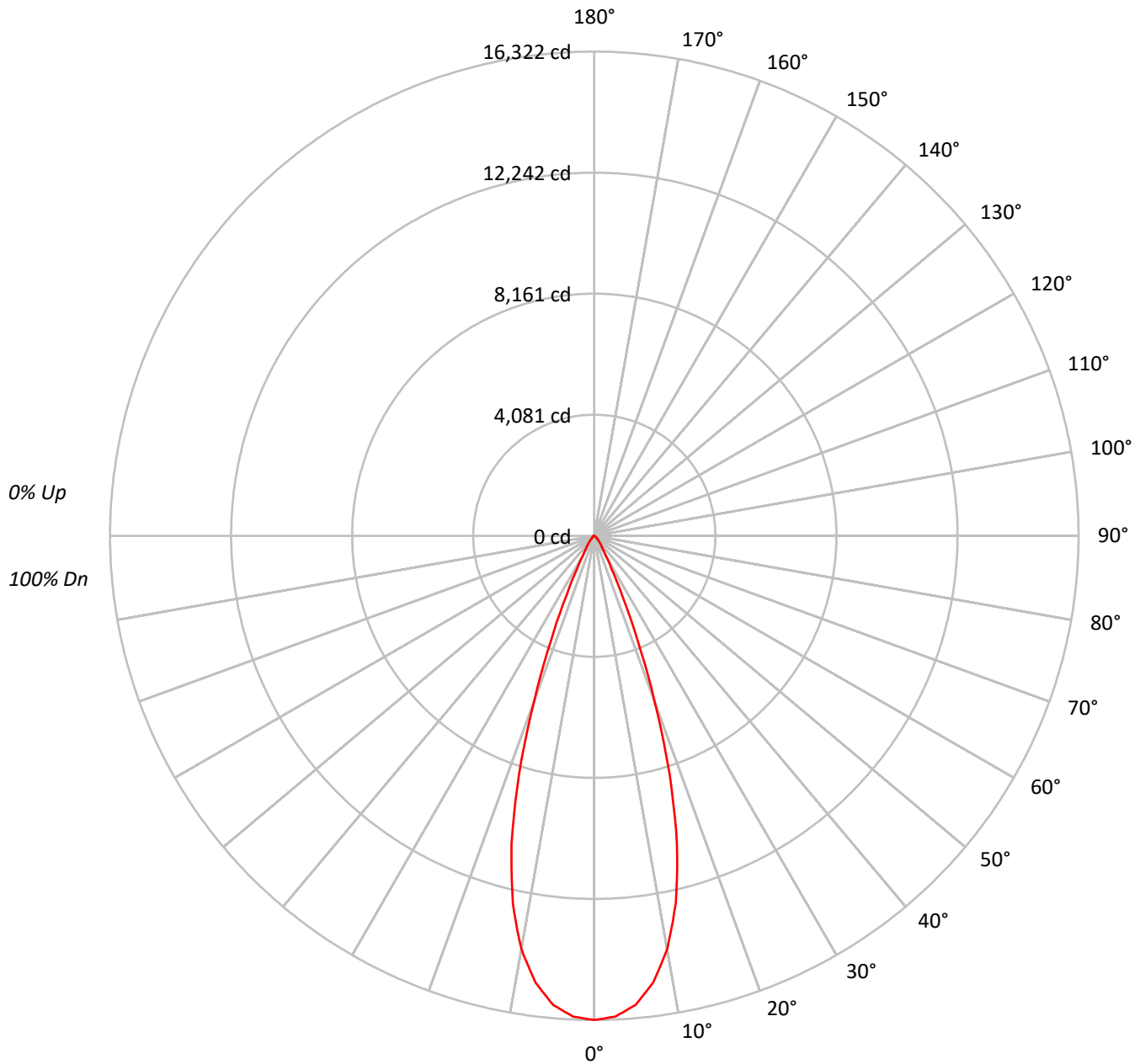


Downlight

TEST NUMBER: P752338

CATALOG NUMBER: LD4D70BD010-EU4DR3570959040-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P752338

CATALOG NUMBER: LD4D70BD010-EU4DR3570959040-4LBDP1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	112	110	108	112	110	108	107	106	105	103		103	101	100		99
2	110	106	103	101	108	105	102	99	102	99	97		99	97	95		96
3	106	101	97	94	105	100	96	93	97	95	92		95	93	91		93
4	103	97	92	89	101	96	92	89	94	90	88		92	89	87		90
5	99	93	88	85	98	92	87	84	90	86	84		89	85	83		87
6	96	89	84	81	94	88	84	81	87	83	80		85	82	80		84
7	93	85	81	78	91	85	80	77	84	80	77		83	79	77		82
8	90	82	78	74	88	82	77	74	81	77	74		80	76	74		79
9	87	79	75	72	86	79	75	72	78	74	71		77	74	71		77
10	84	77	72	69	83	76	72	69	76	72	69		75	71	69		74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1783310
5°	1741414
10°	1569468
15°	1218159
20°	690928
25°	268803
30°	100287
35°	54967
40°	35928
45°	21864
50°	13921
55°	9829
60°	7189
65°	3904
70°	288
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21864 cd/sqm



TEST NUMBER: P752338

CATALOG NUMBER: LD4D70BD010-EU4DR3570959040-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1460.3	24.6
10°-20°	2851.0	48.1
20°-30°	1162.8	19.6
30°-40°	278.3	4.7
40°-50°	115.9	2.0
50°-60°	48.0	0.8
60°-70°	15.0	0.3
70°-80°	0.4	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°	5474.1	92.3
0°-40°	5752.4	97.0
0°-60°	5916.3	99.7
0°-90°	5931.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5931.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16322	
5°	15878	###
15°	10769	2851
25°	2230	1163
35°	412	278
45°	142	116
55°	52	48
65°	15	15
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P752338

CATALOG NUMBER: LD4D70BD010-EU4DR3570959040-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	16321.6
2.5°	16223.7
5°	15877.5
7.5°	15186.7
10°	14146.2
12.5°	12681.1
15°	10769.2
17.5°	8430.9
20°	5942.3
22.5°	3789.1
25°	2229.7
27.5°	1260.4
30°	794.9
32.5°	558.1
35°	412.1
37.5°	318.7
40°	251.9
42.5°	194.0
45°	141.5
47.5°	105.9
50°	81.9
52.5°	65.0
55°	51.6
57.5°	41.8
60°	32.9
62.5°	24.0
65°	15.1
67.5°	5.3
70°	0.9
72.5°	0.9
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)