

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: P752858

Luminaire Tested: LD4D70BD010-EU4DR7070959030-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752858
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-EU4DR7070959030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3983.6 lumens
Efficiency: N/A
Efficacy: 59.8 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

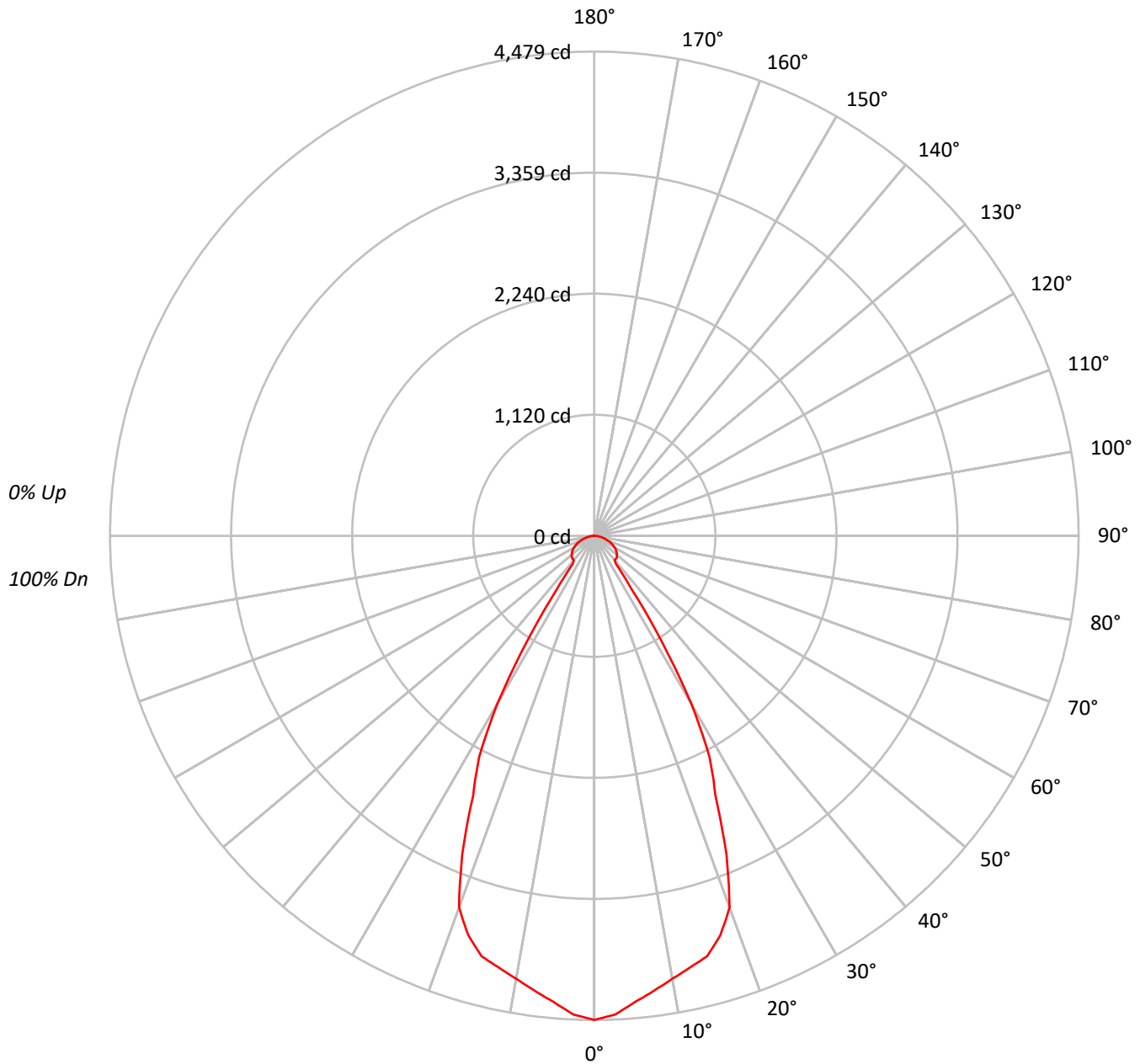


Downlight

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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
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	112	109	106	103		110	107	104	102		103	101	99		99	97	96		95	94	93
2	106	100	95	91		103	98	94	90		95	91	88		92	89	86		89	87	85
3	100	92	87	82		98	91	86	81		88	84	80		86	82	79		83	80	78
4	94	86	80	75		92	85	79	74		82	77	73		80	76	73		78	75	72
5	89	80	74	69		87	79	73	69		77	72	68		75	71	67		74	70	67
6	85	75	68	64		83	74	68	64		73	67	63		71	66	63		70	66	62
7	80	70	64	59		79	70	64	59		68	63	59		67	62	59		66	62	58
8	77	66	60	56		75	66	60	56		65	59	55		64	59	55		63	58	55
9	73	63	57	52		72	62	56	52		61	56	52		60	55	52		60	55	52
10	70	59	53	49		69	59	53	49		58	53	49		57	52	49		57	52	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	489346
5°	474808
10°	461570
15°	455514
20°	425361
25°	319545
30°	225896
35°	80016
40°	42076
45°	44810
50°	46404
55°	47280
60°	47572
65°	46562
70°	43957
75°	40695
80°	36117
85°	29335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 47584 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.3	10.3
10°-20°	1120.0	28.1
20°-30°	1233.5	31.0
30°-40°	471.3	11.8
40°-50°	222.5	5.6
50°-60°	221.3	5.6
60°-70°	177.1	4.4
70°-80°	101.8	2.6
80°-90°	27.7	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°	2761.9	69.3
0°-40°	3233.2	81.2
0°-60°	3677.0	92.3
0°-90°	3983.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3983.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4479	
5°	4329	408
15°	4027	1120
25°	2651	1234
35°	600	471
45°	290	223
55°	248	221
65°	180	177
75°	96	102
85°	23	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4478.7
2.5°	4431.9
5°	4329.1
7.5°	4243.3
10°	4160.3
12.5°	4090.1
15°	4027.0
17.5°	3874.6
20°	3658.3
22.5°	3191.7
25°	2650.6
27.5°	2307.4
30°	1790.5
32.5°	1156.6
35°	599.9
37.5°	324.1
40°	295.0
42.5°	292.9
45°	290.0
47.5°	283.6
50°	273.0
52.5°	261.0
55°	248.2
57.5°	234.0
60°	217.7
62.5°	199.3
65°	180.1
67.5°	158.8
70°	137.6
72.5°	116.3
75°	96.4
77.5°	75.9
80°	57.4
82.5°	40.4
85°	23.4
87.5°	9.2
90°	0.0



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— 0°-180°







(END OF REPORT)