

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: P752832

Luminaire Tested: LD4D70BD010-EU4DR7070959024-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752832
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-EU4DR7070959024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3413.5 lumens
Efficiency: N/A
Efficacy: 51.3 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

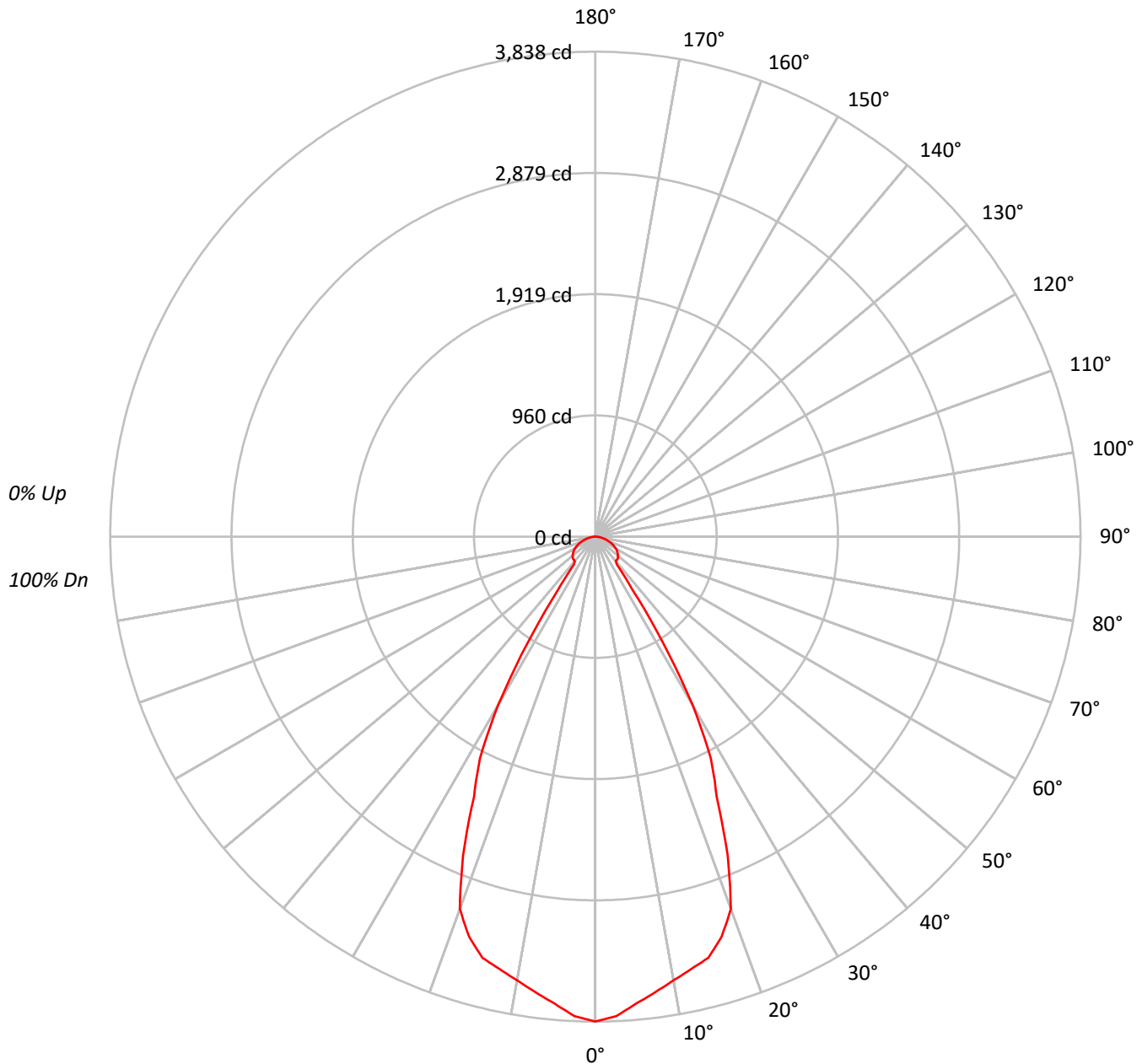


Downlight

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	419321
5°	406862
10°	395512
15°	390326
20°	364481
25°	273819
30°	193573
35°	68572
40°	36057
45°	38398
50°	39758
55°	40517
60°	40754
65°	39892
70°	37664
75°	34870
80°	30957
85°	25198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 40772 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.9	10.3
10°-20°	959.7	28.1
20°-30°	1057.0	31.0
30°-40°	403.9	11.8
40°-50°	190.7	5.6
50°-60°	189.6	5.6
60°-70°	151.8	4.4
70°-80°	87.2	2.6
80°-90°	23.7	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°	2366.6	69.3
0°-40°	2770.5	81.2
0°-60°	3150.8	92.3
0°-90°	3413.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3413.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3838	
5°	3710	350
15°	3451	960
25°	2271	1057
35°	514	404
45°	248	191
55°	213	190
65°	154	152
75°	83	87
85°	20	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3837.8
2.5°	3797.7
5°	3709.6
7.5°	3636.0
10°	3564.9
12.5°	3504.8
15°	3450.7
17.5°	3320.1
20°	3134.7
22.5°	2734.9
25°	2271.3
27.5°	1977.2
30°	1534.3
32.5°	991.0
35°	514.1
37.5°	277.7
40°	252.8
42.5°	250.9
45°	248.5
47.5°	243.1
50°	233.9
52.5°	223.6
55°	212.7
57.5°	200.5
60°	186.5
62.5°	170.7
65°	154.3
67.5°	136.1
70°	117.9
72.5°	99.7
75°	82.6
77.5°	65.0
80°	49.2
82.5°	34.6
85°	20.1
87.5°	7.9
90°	0.0



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— 0°-180°







(END OF REPORT)