

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: P752784

Luminaire Tested: LD4D70BD010-EU4DR6570959030-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P752784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR6570959030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5808.8 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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

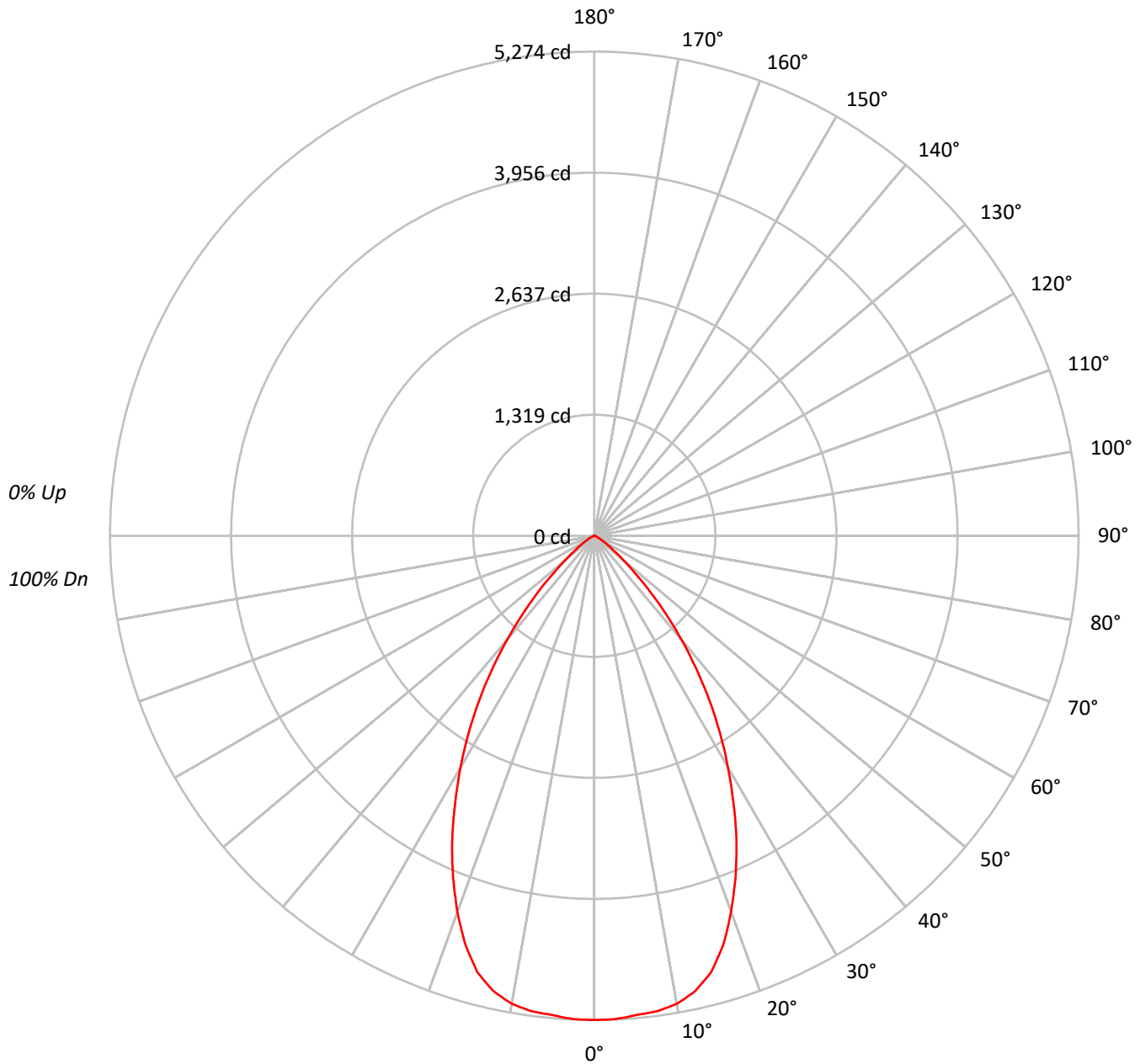


Downlight

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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	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	308034
5°	307258
10°	306997
15°	297532
20°	270865
25°	236043
30°	196322
35°	155558
40°	112272
45°	70933
50°	36971
55°	19652
60°	10326
65°	5680
70°	2391
75°	2618
80°	1816
85°	1541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 70933 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.8	8.6
10°-20°	1365.8	23.5
20°-30°	1669.5	28.7
30°-40°	1354.6	23.3
40°-50°	675.0	11.6
50°-60°	188.3	3.2
60°-70°	42.8	0.7
70°-80°	11.2	0.2
80°-90°	2.9	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°	3534.1	60.8
0°-40°	4888.7	84.2
0°-60°	5752.0	99.0
0°-90°	5808.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5808.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5274	
5°	5241	499
15°	4921	1366
25°	3663	1670
35°	2182	1355
45°	859	675
55°	193	188
65°	41	43
75°	12	11
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5274.2
2.5°	5270.4
5°	5240.9
7.5°	5223.9
10°	5176.6
12.5°	5080.5
15°	4920.8
17.5°	4671.2
20°	4358.1
22.5°	4020.2
25°	3662.9
27.5°	3280.8
30°	2911.1
32.5°	2546.0
35°	2181.8
37.5°	1818.3
40°	1472.6
42.5°	1148.6
45°	858.8
47.5°	598.3
50°	406.9
52.5°	280.6
55°	193.0
57.5°	130.2
60°	88.4
62.5°	61.2
65°	41.1
67.5°	20.9
70°	14.0
72.5°	13.2
75°	11.6
77.5°	7.8
80°	5.4
82.5°	3.9
85°	2.3
87.5°	1.6
90°	0.0



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— 0°-180°







(END OF REPORT)