

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: P752758

Luminaire Tested: LD4D70BD010-EU4DR6570959024-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P752758
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-EU4DR6570959024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4977.5 lumens
Efficiency: N/A
Efficacy: 74.7 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

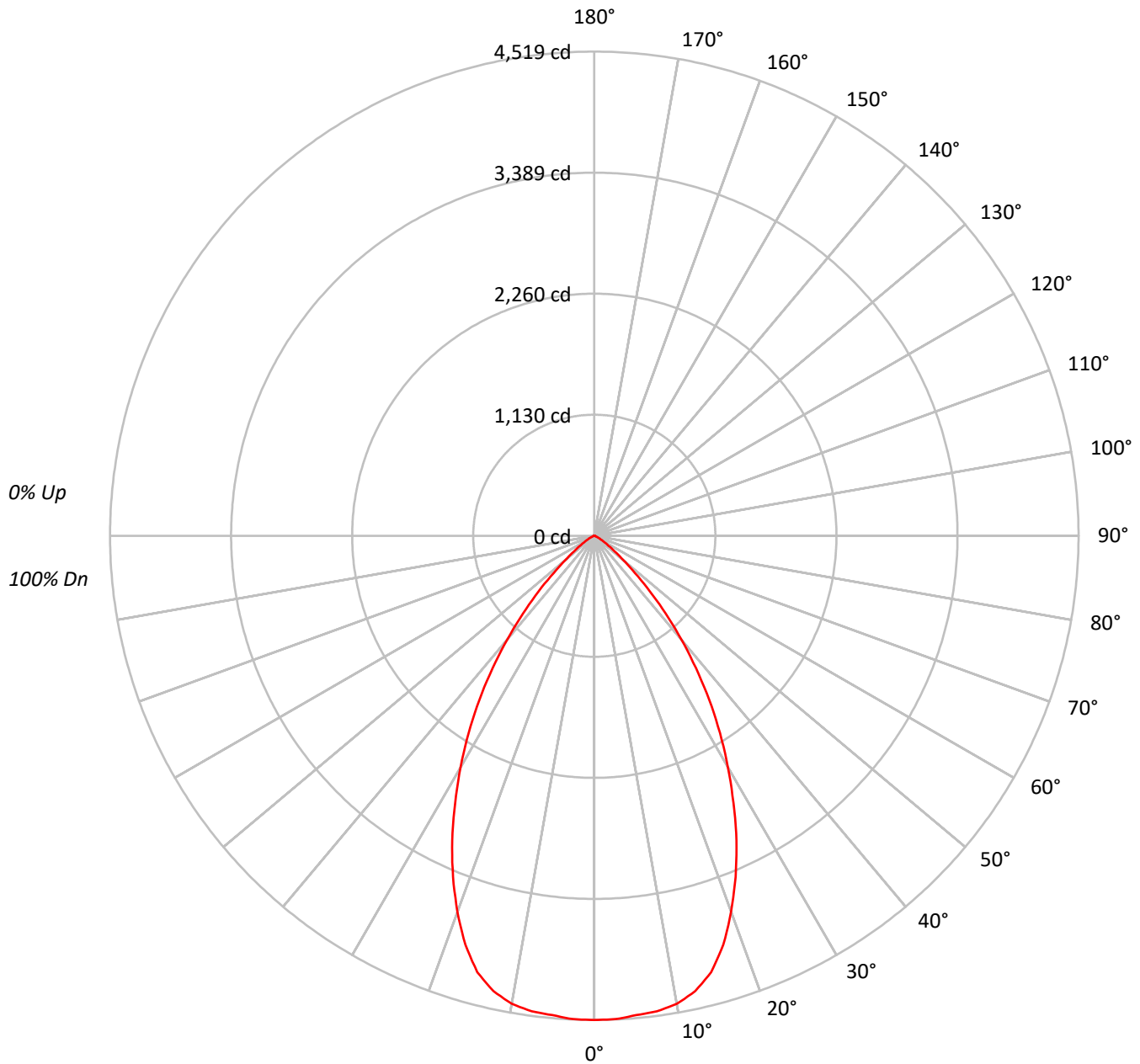


Downlight

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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°	263950
5°	263288
10°	263058
15°	254953
20°	232101
25°	202263
30°	168227
35°	133292
40°	96208
45°	60782
50°	31683
55°	16842
60°	8842
65°	4864
70°	2049
75°	2257
80°	1547
85°	1340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 60782 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.4	8.6
10°-20°	1170.4	23.5
20°-30°	1430.6	28.7
30°-40°	1160.8	23.3
40°-50°	578.4	11.6
50°-60°	161.3	3.2
60°-70°	36.7	0.7
70°-80°	9.5	0.2
80°-90°	2.4	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°	3028.4	60.8
0°-40°	4189.1	84.2
0°-60°	4928.9	99.0
0°-90°	4977.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4977.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4519	
5°	4491	427
15°	4217	1170
25°	3139	1431
35°	1870	1161
45°	736	578
55°	165	161
65°	35	37
75°	10	10
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4519.4
2.5°	4516.1
5°	4490.9
7.5°	4476.3
10°	4435.7
12.5°	4353.4
15°	4216.6
17.5°	4002.7
20°	3734.4
22.5°	3444.9
25°	3138.7
27.5°	2811.3
30°	2494.5
32.5°	2181.7
35°	1869.5
37.5°	1558.1
40°	1261.9
42.5°	984.2
45°	735.9
47.5°	512.7
50°	348.7
52.5°	240.4
55°	165.4
57.5°	111.6
60°	75.7
62.5°	52.5
65°	35.2
67.5°	17.9
70°	12.0
72.5°	11.3
75°	10.0
77.5°	6.6
80°	4.6
82.5°	3.3
85°	2.0
87.5°	1.3
90°	0.0



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— 0°-180°







(END OF REPORT)