

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: P751324

Luminaire Tested: LD4D60D010-EU4DR7055659040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P751324
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: LD4D60D010-EU4DR7055659040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3737.8 lumens
Efficiency: N/A
Efficacy: 58.0 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): 64.4
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

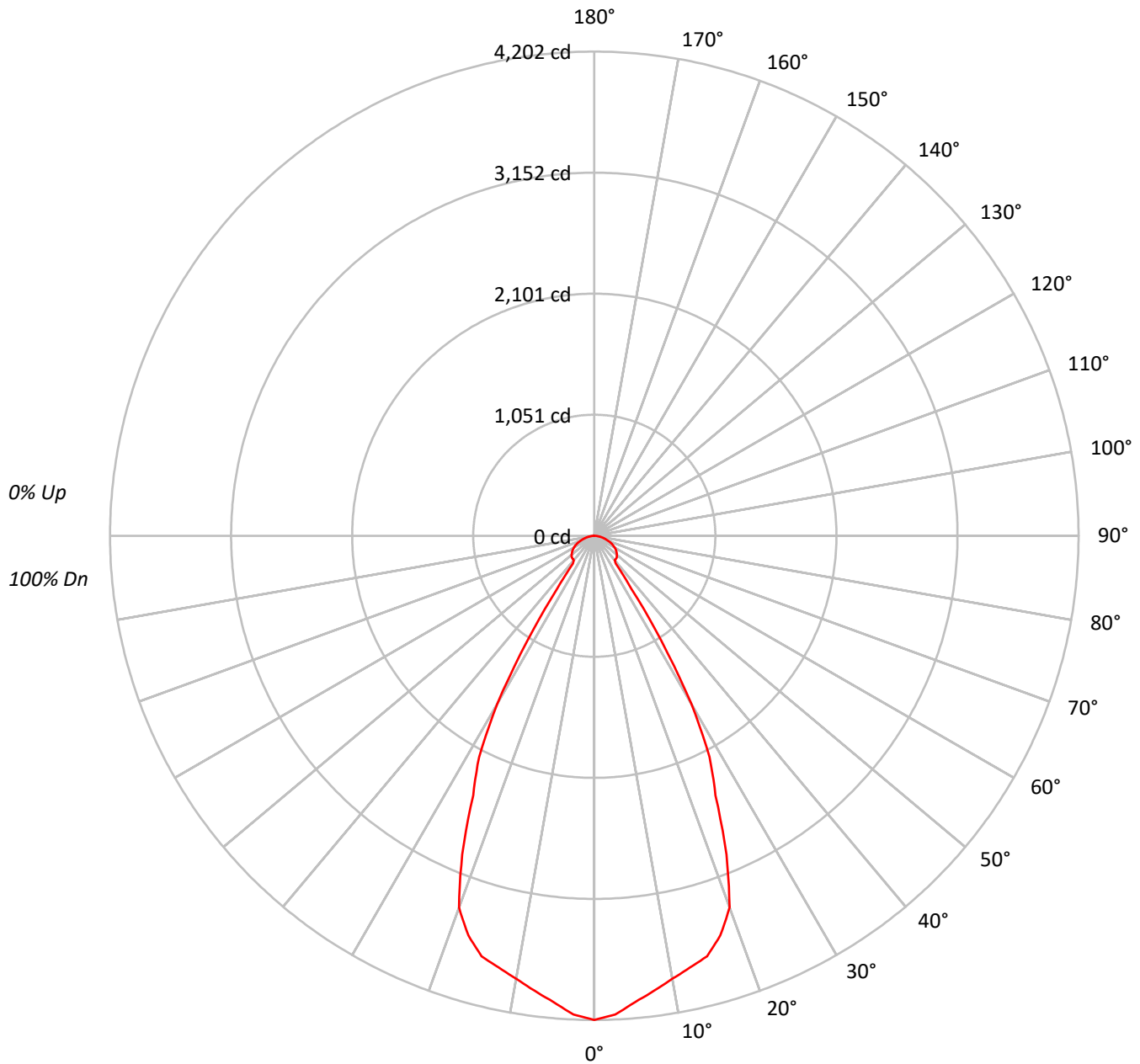


Downlight

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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°	459146
5°	445502
10°	433090
15°	427405
20°	399107
25°	299835
30°	211955
35°	75081
40°	39480
45°	42044
50°	43549
55°	44365
60°	44644
65°	43692
70°	41242
75°	38205
80°	33914
85°	27580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 44656 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.1	10.3
10°-20°	1050.9	28.1
20°-30°	1157.4	31.0
30°-40°	442.2	11.8
40°-50°	208.8	5.6
50°-60°	207.6	5.6
60°-70°	166.2	4.4
70°-80°	95.5	2.6
80°-90°	26.0	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°	2591.4	69.3
0°-40°	3033.7	81.2
0°-60°	3450.1	92.3
0°-90°	3737.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3737.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4202	
5°	4062	383
15°	3778	1051
25°	2487	1157
35°	563	442
45°	272	209
55°	233	208
65°	169	166
75°	90	96
85°	22	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4202.3
2.5°	4158.4
5°	4061.9
7.5°	3981.4
10°	3903.6
12.5°	3837.7
15°	3778.5
17.5°	3635.4
20°	3432.5
22.5°	2994.7
25°	2487.1
27.5°	2165.0
30°	1680.0
32.5°	1085.2
35°	562.9
37.5°	304.1
40°	276.8
42.5°	274.8
45°	272.1
47.5°	266.1
50°	256.2
52.5°	244.8
55°	232.9
57.5°	219.6
60°	204.3
62.5°	187.0
65°	169.0
67.5°	149.0
70°	129.1
72.5°	109.1
75°	90.5
77.5°	71.2
80°	53.9
82.5°	37.9
85°	22.0
87.5°	8.6
90°	0.0



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— 0°-180°







(END OF REPORT)