

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: P748140

Luminaire Tested: LD4D40BD010-EU4DR6540509050-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR6540509050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3511.8 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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

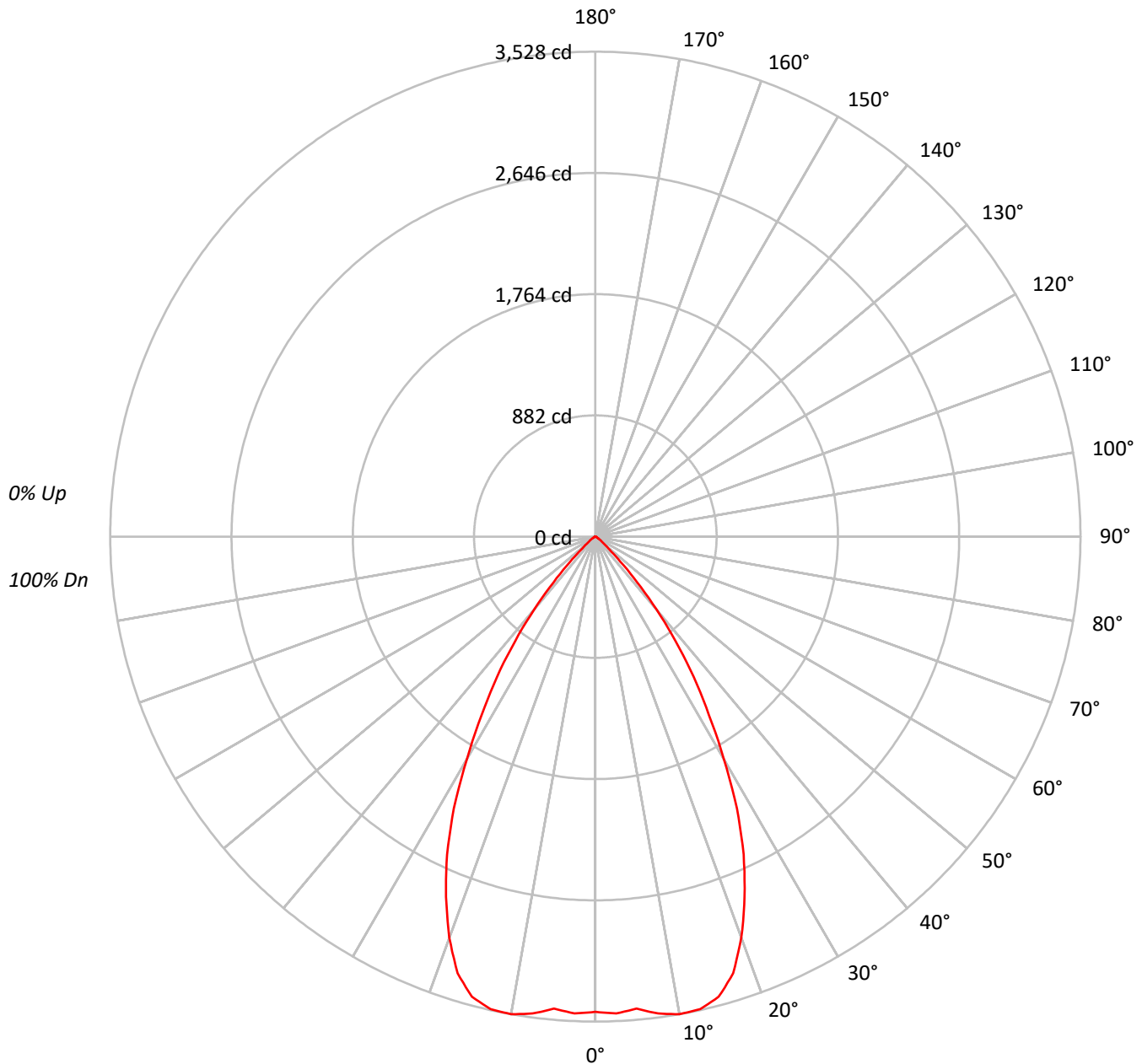


Downlight

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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	113	111	108	106		111	108	106	104		104	103	101		101	99	98		97	96	95
2	108	103	99	95		106	101	97	94		98	95	92		95	92	90		92	90	88
3	102	96	91	87		100	94	90	86		92	88	85		89	86	83		87	84	82
4	97	89	84	79		95	88	83	79		86	82	78		84	80	77		82	79	76
5	92	83	78	73		90	83	77	73		81	76	72		79	75	72		77	74	71
6	87	78	72	68		86	77	72	68		76	71	67		74	70	67		73	69	66
7	83	73	67	63		81	73	67	63		71	66	62		70	66	62		69	65	62
8	79	69	63	59		77	68	63	59		67	62	58		66	62	58		65	61	58
9	75	65	59	55		74	65	59	55		64	58	55		63	58	55		62	58	54
10	71	61	56	52		70	61	55	52		60	55	51		59	55	51		59	54	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	377780
5°	378082
10°	391396
15°	392045
20°	360946
25°	307538
30°	235434
35°	166328
40°	98186
45°	39866
50°	14448
55°	8058
60°	4611
65°	2534
70°	2683
75°	2069
80°	2139
85°	1880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 39866 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.9	9.5
10°-20°	960.4	27.3
20°-30°	1152.2	32.8
30°-40°	774.3	22.0
40°-50°	231.8	6.6
50°-60°	40.9	1.2
60°-70°	11.6	0.3
70°-80°	5.7	0.2
80°-90°	1.8	0.1
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°	2445.5	69.6
0°-40°	3219.9	91.7
0°-60°	3492.6	99.5
0°-90°	3511.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3511.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3458	
5°	3447	333
15°	3466	960
25°	2551	1152
35°	1247	774
45°	258	232
55°	42	41
65°	10	12
75°	5	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3457.6
2.5°	3472.3
5°	3447.2
7.5°	3499.3
10°	3527.8
12.5°	3520.9
15°	3465.9
17.5°	3331.3
20°	3104.3
22.5°	2837.0
25°	2551.0
27.5°	2228.2
30°	1866.1
32.5°	1537.9
35°	1247.0
37.5°	959.6
40°	688.4
42.5°	449.6
45°	258.0
47.5°	136.6
50°	85.0
52.5°	59.0
55°	42.3
57.5°	30.5
60°	21.1
62.5°	13.8
65°	9.8
67.5°	8.8
70°	8.4
72.5°	6.4
75°	4.9
77.5°	4.4
80°	3.4
82.5°	2.5
85°	1.5
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)