

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: P785082

Luminaire Tested: LER4DD45BD010-EC4DR7040509035-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785082
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: LER4DD45BD010-EC4DR7040509035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4413.6 lumens
Efficiency: N/A
Efficacy: 114.0 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): 38.7
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

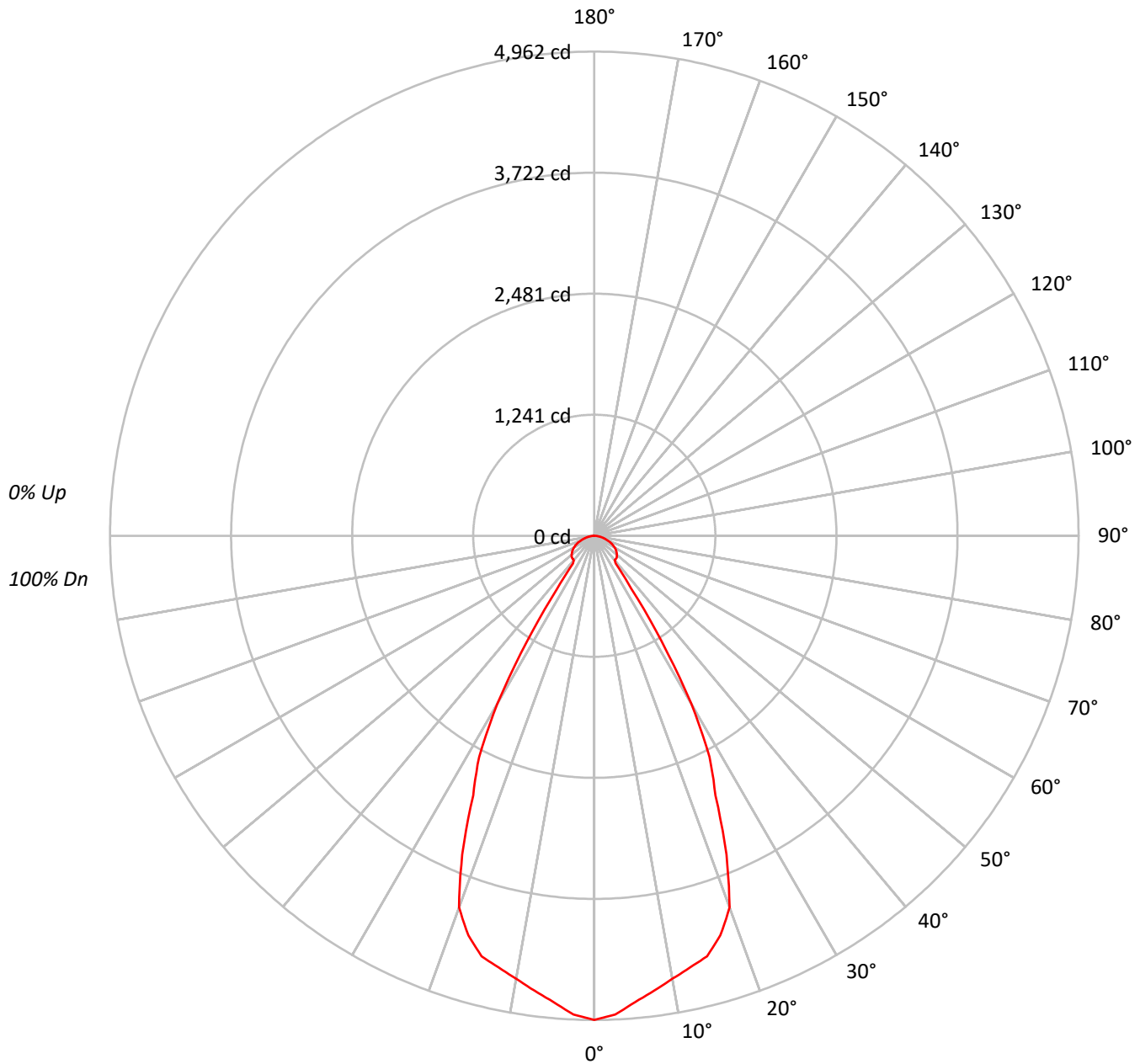


Downlight

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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°	542163
5°	526049
10°	511396
15°	504685
20°	471266
25°	354037
30°	250270
35°	88660
40°	46611
45°	49647
50°	51419
55°	52385
60°	52707
65°	51603
70°	48685
75°	45086
80°	40018
85°	32469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 52729 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.4	10.3
10°-20°	1240.9	28.1
20°-30°	1366.7	31.0
30°-40°	522.2	11.8
40°-50°	246.6	5.6
50°-60°	245.1	5.6
60°-70°	196.3	4.4
70°-80°	112.8	2.6
80°-90°	30.7	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°	3060.0	69.3
0°-40°	3582.2	81.2
0°-60°	4073.9	92.3
0°-90°	4413.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4413.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4962	
5°	4796	452
15°	4462	1241
25°	2937	1367
35°	665	522
45°	321	247
55°	275	245
65°	200	196
75°	107	113
85°	26	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4962.1
2.5°	4910.3
5°	4796.3
7.5°	4701.3
10°	4609.4
12.5°	4531.6
15°	4461.7
17.5°	4292.7
20°	4053.1
22.5°	3536.2
25°	2936.7
27.5°	2556.5
30°	1983.7
32.5°	1281.4
35°	664.7
37.5°	359.0
40°	326.8
42.5°	324.5
45°	321.3
47.5°	314.3
50°	302.5
52.5°	289.1
55°	275.0
57.5°	259.3
60°	241.2
62.5°	220.8
65°	199.6
67.5°	176.0
70°	152.4
72.5°	128.8
75°	106.8
77.5°	84.1
80°	63.6
82.5°	44.8
85°	25.9
87.5°	10.2
90°	0.0



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— 0°-180°







(END OF REPORT)