

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: P785081

Luminaire Tested: LER4DD45BD010-EC4DR7040509035-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785081
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-EC4DR7040509035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 4203.4 lumens
Efficiency: N/A
Efficacy: 108.6 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 (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

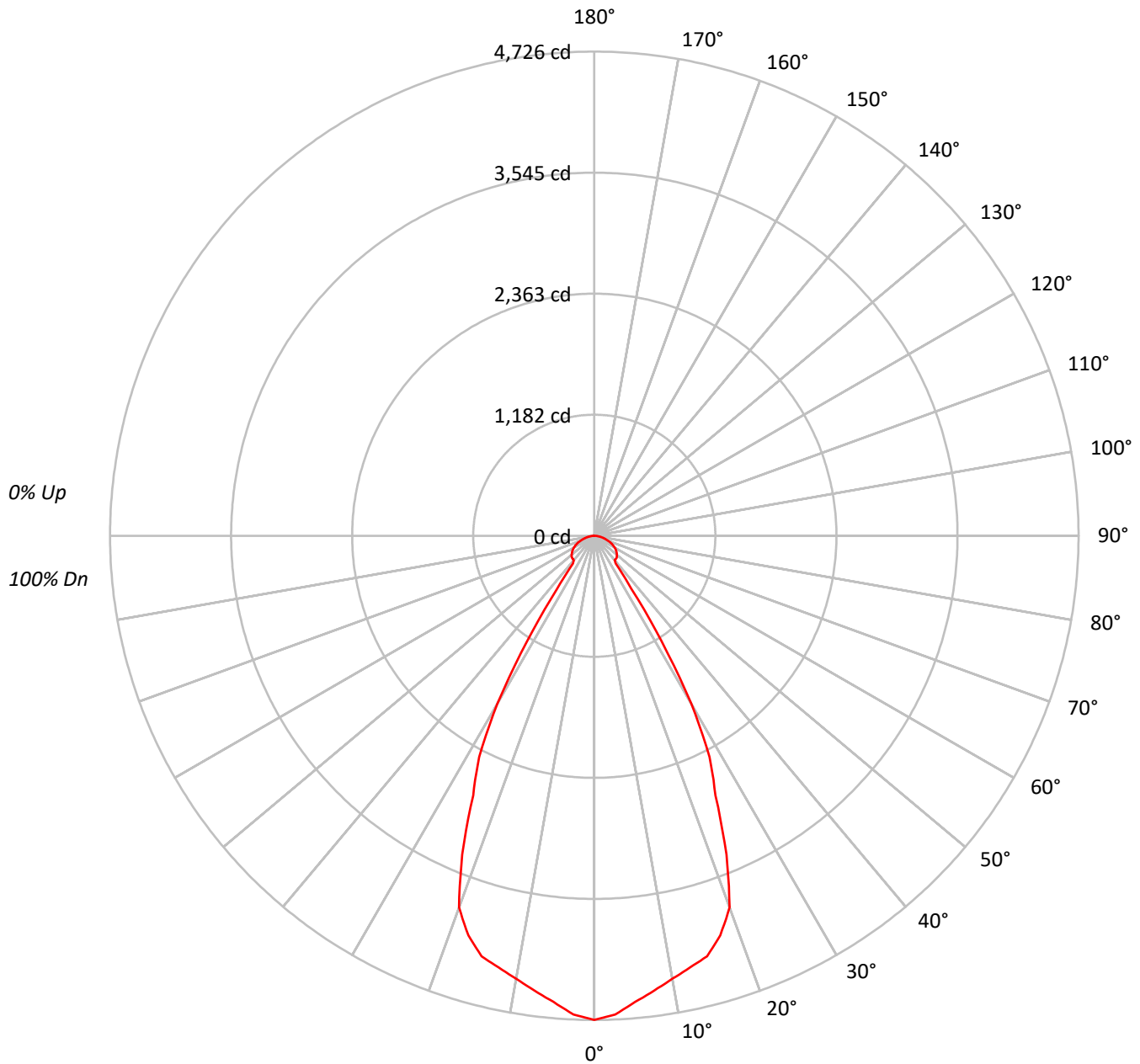


Downlight

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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	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°	516344
5°	500999
10°	487043
15°	480648
20°	448825
25°	337183
30°	238361
35°	84431
40°	44401
45°	47283
50°	48971
55°	49889
60°	50194
65°	49147
70°	46385
75°	42975
80°	38130
85°	30965

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 50208 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.9	10.3
10°-20°	1181.8	28.1
20°-30°	1301.6	31.0
30°-40°	497.3	11.8
40°-50°	234.8	5.6
50°-60°	233.4	5.6
60°-70°	186.9	4.4
70°-80°	107.4	2.6
80°-90°	29.2	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°	2914.3	69.3
0°-40°	3411.6	81.2
0°-60°	3879.8	92.3
0°-90°	4203.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4203.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4726	
5°	4568	431
15°	4249	1182
25°	2797	1302
35°	633	497
45°	306	235
55°	262	233
65°	190	187
75°	102	107
85°	25	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4725.8
2.5°	4676.4
5°	4567.9
7.5°	4477.4
10°	4389.9
12.5°	4315.8
15°	4249.2
17.5°	4088.3
20°	3860.1
22.5°	3367.8
25°	2796.9
27.5°	2434.7
30°	1889.3
32.5°	1220.4
35°	633.0
37.5°	341.9
40°	311.3
42.5°	309.0
45°	306.0
47.5°	299.3
50°	288.1
52.5°	275.3
55°	261.9
57.5°	246.9
60°	229.7
62.5°	210.3
65°	190.1
67.5°	167.6
70°	145.2
72.5°	122.7
75°	101.8
77.5°	80.1
80°	60.6
82.5°	42.6
85°	24.7
87.5°	9.7
90°	0.0



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— 0°-180°







(END OF REPORT)