

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: P785089

Luminaire Tested: LER4DD45BD010-EC4DR7040509050-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785089
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-EC4DR7040509050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4431.4 lumens
Efficiency: N/A
Efficacy: 114.5 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

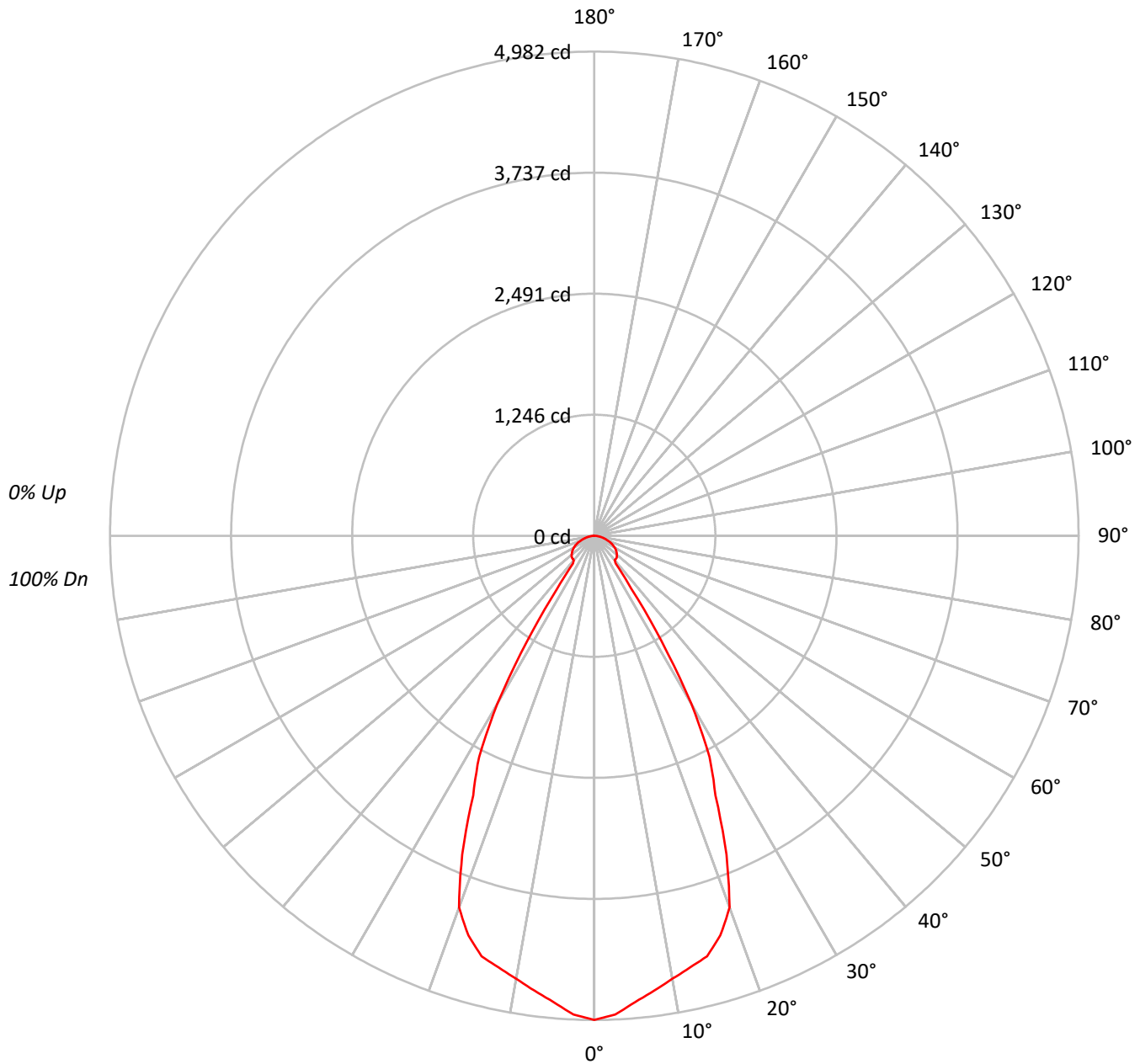


Downlight

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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°	544348
5°	528177
10°	513448
15°	506710
20°	473161
25°	355471
30°	251280
35°	89006
40°	46797
45°	49848
50°	51623
55°	52594
60°	52926
65°	51810
70°	48877
75°	45297
80°	40206
85°	32594

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 52932 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.2	10.3
10°-20°	1245.9	28.1
20°-30°	1372.2	31.0
30°-40°	524.3	11.8
40°-50°	247.5	5.6
50°-60°	246.1	5.6
60°-70°	197.1	4.4
70°-80°	113.3	2.6
80°-90°	30.8	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°	3072.3	69.3
0°-40°	3596.6	81.2
0°-60°	4090.2	92.3
0°-90°	4431.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4431.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4982	
5°	4816	454
15°	4480	1246
25°	2949	1372
35°	667	524
45°	323	248
55°	276	246
65°	200	197
75°	107	113
85°	26	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4982.1
2.5°	4930.0
5°	4815.7
7.5°	4720.2
10°	4627.9
12.5°	4549.8
15°	4479.6
17.5°	4310.0
20°	4069.4
22.5°	3550.4
25°	2948.6
27.5°	2566.8
30°	1991.7
32.5°	1286.5
35°	667.3
37.5°	360.5
40°	328.1
42.5°	325.8
45°	322.6
47.5°	315.5
50°	303.7
52.5°	290.3
55°	276.1
57.5°	260.3
60°	242.2
62.5°	221.7
65°	200.4
67.5°	176.7
70°	153.0
72.5°	129.4
75°	107.3
77.5°	84.4
80°	63.9
82.5°	45.0
85°	26.0
87.5°	10.3
90°	0.0



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— 0°-180°







(END OF REPORT)