

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: P785074

Luminaire Tested: LER4DD45BD010-EC4DR7040509027-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785074
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-EC4DR7040509027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4239.4 lumens
Efficiency: N/A
Efficacy: 109.5 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 (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

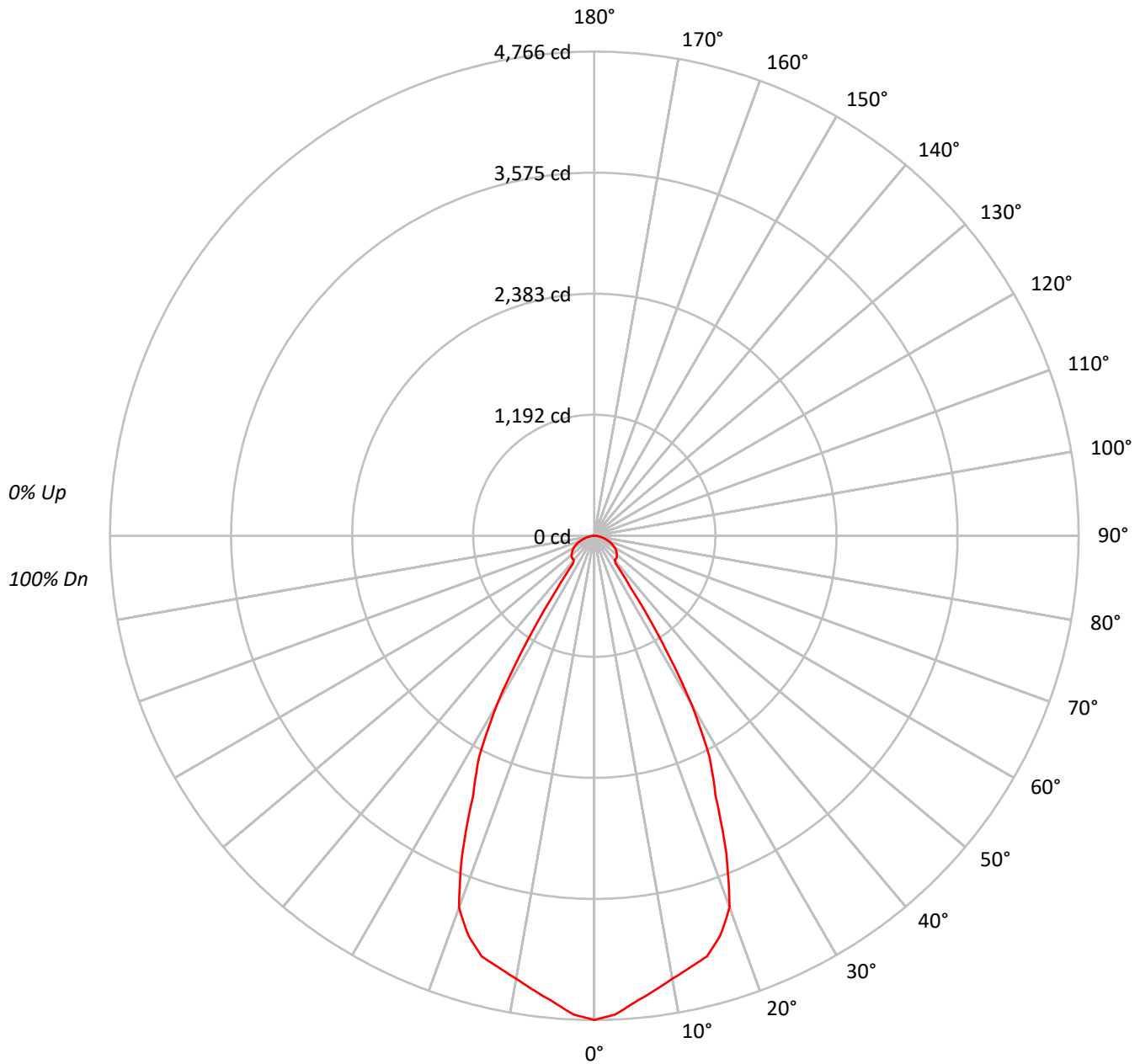


Downlight

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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°	520770
5°	505298
10°	491215
15°	484766
20°	452674
25°	340076
30°	240404
35°	85152
40°	44771
45°	47700
50°	49379
55°	50308
60°	50631
65°	49561
70°	46769
75°	43313
80°	38445
85°	31215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 50635 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.5	10.3
10°-20°	1191.9	28.1
20°-30°	1312.8	31.0
30°-40°	501.6	11.8
40°-50°	236.8	5.6
50°-60°	235.4	5.6
60°-70°	188.5	4.4
70°-80°	108.3	2.6
80°-90°	29.4	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°	2939.3	69.3
0°-40°	3440.8	81.2
0°-60°	3913.1	92.3
0°-90°	4239.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4239.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4766	
5°	4607	435
15°	4286	1192
25°	2821	1313
35°	638	502
45°	309	237
55°	264	235
65°	192	189
75°	103	108
85°	25	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4766.3
2.5°	4716.5
5°	4607.1
7.5°	4515.8
10°	4427.5
12.5°	4352.8
15°	4285.6
17.5°	4123.4
20°	3893.2
22.5°	3396.7
25°	2820.9
27.5°	2455.6
30°	1905.5
32.5°	1230.8
35°	638.4
37.5°	344.9
40°	313.9
42.5°	311.7
45°	308.7
47.5°	301.9
50°	290.5
52.5°	277.7
55°	264.1
57.5°	249.0
60°	231.7
62.5°	212.1
65°	191.7
67.5°	169.0
70°	146.4
72.5°	123.8
75°	102.6
77.5°	80.7
80°	61.1
82.5°	43.0
85°	24.9
87.5°	9.8
90°	0.0



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— 0°-180°







(END OF REPORT)