

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: P784838

Luminaire Tested: LER4DD40BD010-EC4DR7040509030-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784838
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: LER4DD40BD010-EC4DR7040509030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3987.2 lumens
Efficiency: N/A
Efficacy: 113.3 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): 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

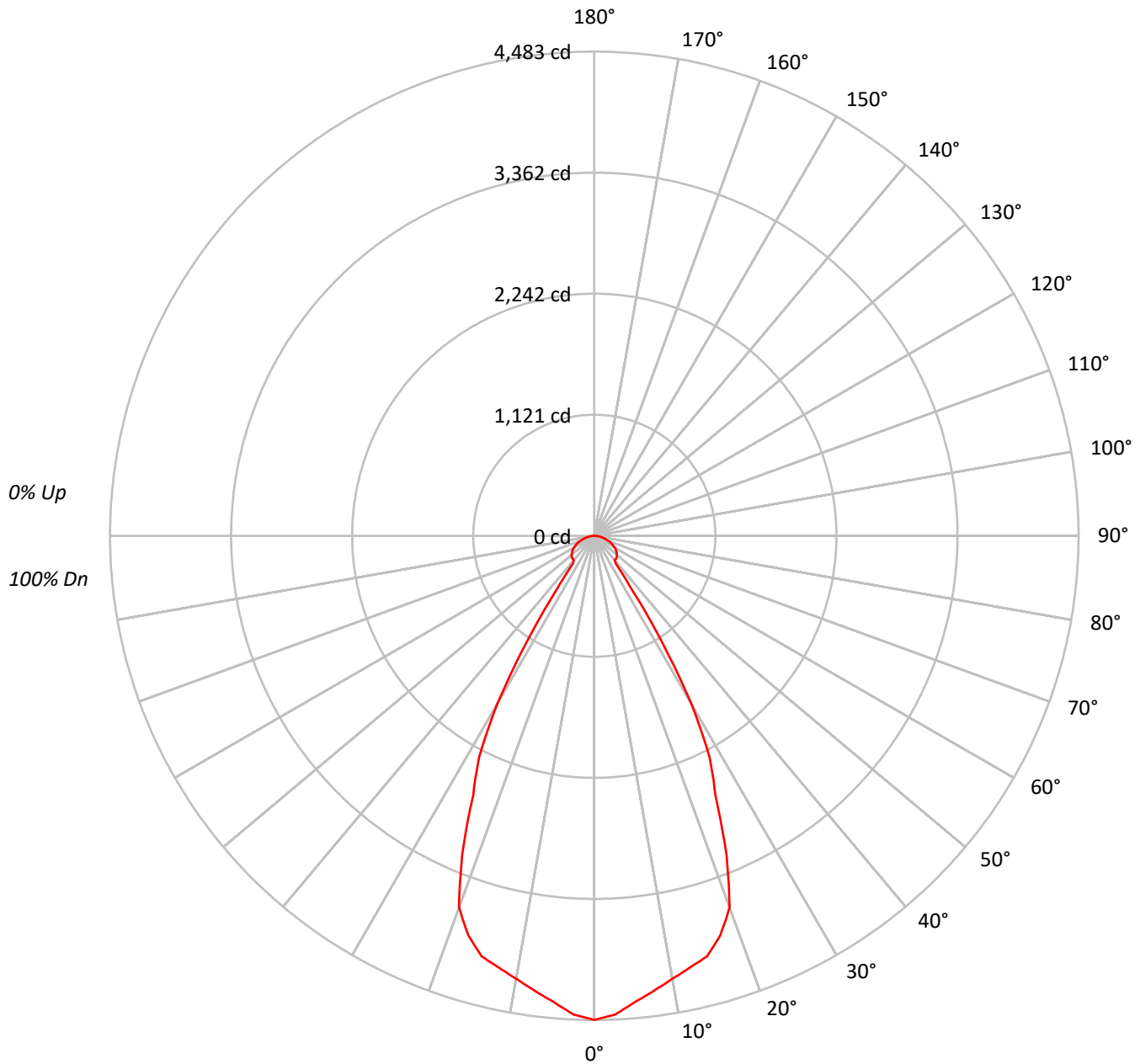


Downlight

TEST NUMBER: P784838

CATALOG NUMBER: LER4DD40BD010-EC4DR7040509030-4LBDP1LI

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°	489794
5°	475235
10°	461991
15°	455933
20°	425745
25°	319835
30°	226098
35°	80083
40°	42119
45°	44857
50°	46455
55°	47318
60°	47616
65°	46613
70°	43989
75°	40738
80°	36179
85°	29335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 47625 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.7	10.3
10°-20°	1121.0	28.1
20°-30°	1234.7	31.0
30°-40°	471.7	11.8
40°-50°	222.7	5.6
50°-60°	221.4	5.6
60°-70°	177.3	4.4
70°-80°	101.9	2.6
80°-90°	27.7	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°	2764.4	69.3
0°-40°	3236.1	81.2
0°-60°	3680.3	92.3
0°-90°	3987.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3987.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4483	
5°	4333	409
15°	4031	1121
25°	2653	1235
35°	600	472
45°	290	223
55°	248	221
65°	180	177
75°	96	102
85°	23	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4482.8
2.5°	4435.9
5°	4333.0
7.5°	4247.1
10°	4164.1
12.5°	4093.8
15°	4030.7
17.5°	3878.1
20°	3661.6
22.5°	3194.6
25°	2653.0
27.5°	2309.5
30°	1792.1
32.5°	1157.6
35°	600.4
37.5°	324.4
40°	295.3
42.5°	293.1
45°	290.3
47.5°	283.9
50°	273.3
52.5°	261.2
55°	248.4
57.5°	234.2
60°	217.9
62.5°	199.4
65°	180.3
67.5°	159.0
70°	137.7
72.5°	116.4
75°	96.5
77.5°	75.9
80°	57.5
82.5°	40.5
85°	23.4
87.5°	9.2
90°	0.0



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— 0°-180°







(END OF REPORT)