

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: P784830

Luminaire Tested: LER4DD40BD010-EC4DR7040509024-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784830
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-EC4DR7040509024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3416.6 lumens
Efficiency: N/A
Efficacy: 97.1 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

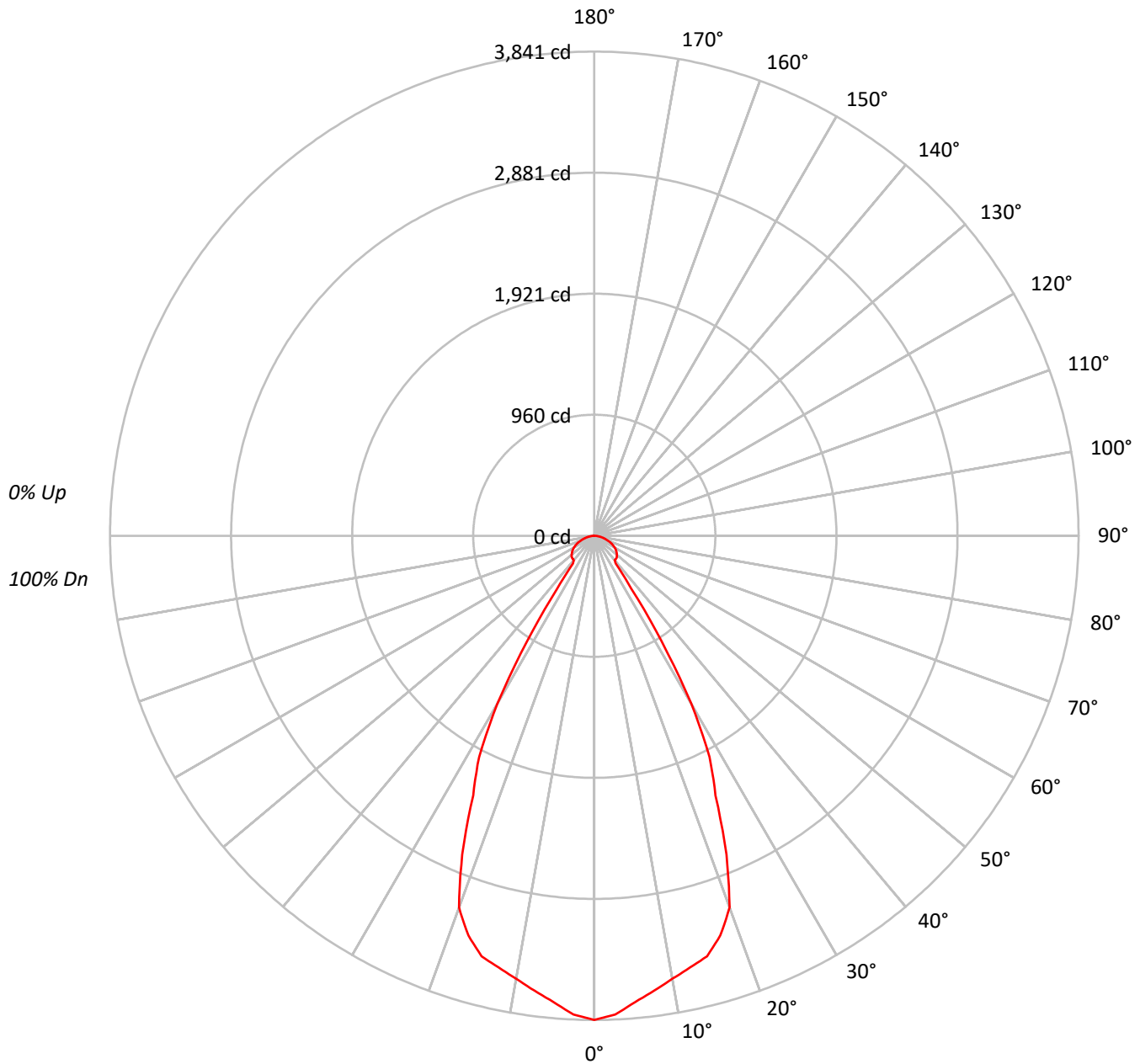


Downlight

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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°	419692
5°	407224
10°	395879
15°	390677
20°	364818
25°	274072
30°	193737
35°	68625
40°	36085
45°	38429
50°	39792
55°	40555
60°	40798
65°	39943
70°	37696
75°	34912
80°	31020
85°	25198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 40813 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.2	10.3
10°-20°	960.6	28.1
20°-30°	1058.0	31.0
30°-40°	404.2	11.8
40°-50°	190.9	5.6
50°-60°	189.8	5.6
60°-70°	151.9	4.4
70°-80°	87.3	2.6
80°-90°	23.8	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°	2368.8	69.3
0°-40°	2773.0	81.2
0°-60°	3153.6	92.3
0°-90°	3416.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3416.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3841	
5°	3713	350
15°	3454	961
25°	2273	1058
35°	514	404
45°	249	191
55°	213	190
65°	154	152
75°	83	87
85°	20	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3841.2
2.5°	3801.1
5°	3712.9
7.5°	3639.3
10°	3568.2
12.5°	3508.0
15°	3453.8
17.5°	3323.1
20°	3137.6
22.5°	2737.4
25°	2273.4
27.5°	1979.0
30°	1535.6
32.5°	991.9
35°	514.5
37.5°	277.9
40°	253.0
42.5°	251.2
45°	248.7
47.5°	243.3
50°	234.1
52.5°	223.8
55°	212.9
57.5°	200.7
60°	186.7
62.5°	170.9
65°	154.5
67.5°	136.2
70°	118.0
72.5°	99.7
75°	82.7
77.5°	65.1
80°	49.3
82.5°	34.7
85°	20.1
87.5°	7.9
90°	0.0



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— 0°-180°







(END OF REPORT)