

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: P784797

Luminaire Tested: LER4DD40BD010-EC4DR6040509040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD40BD010-EC4DR6040509040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3990.6 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
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

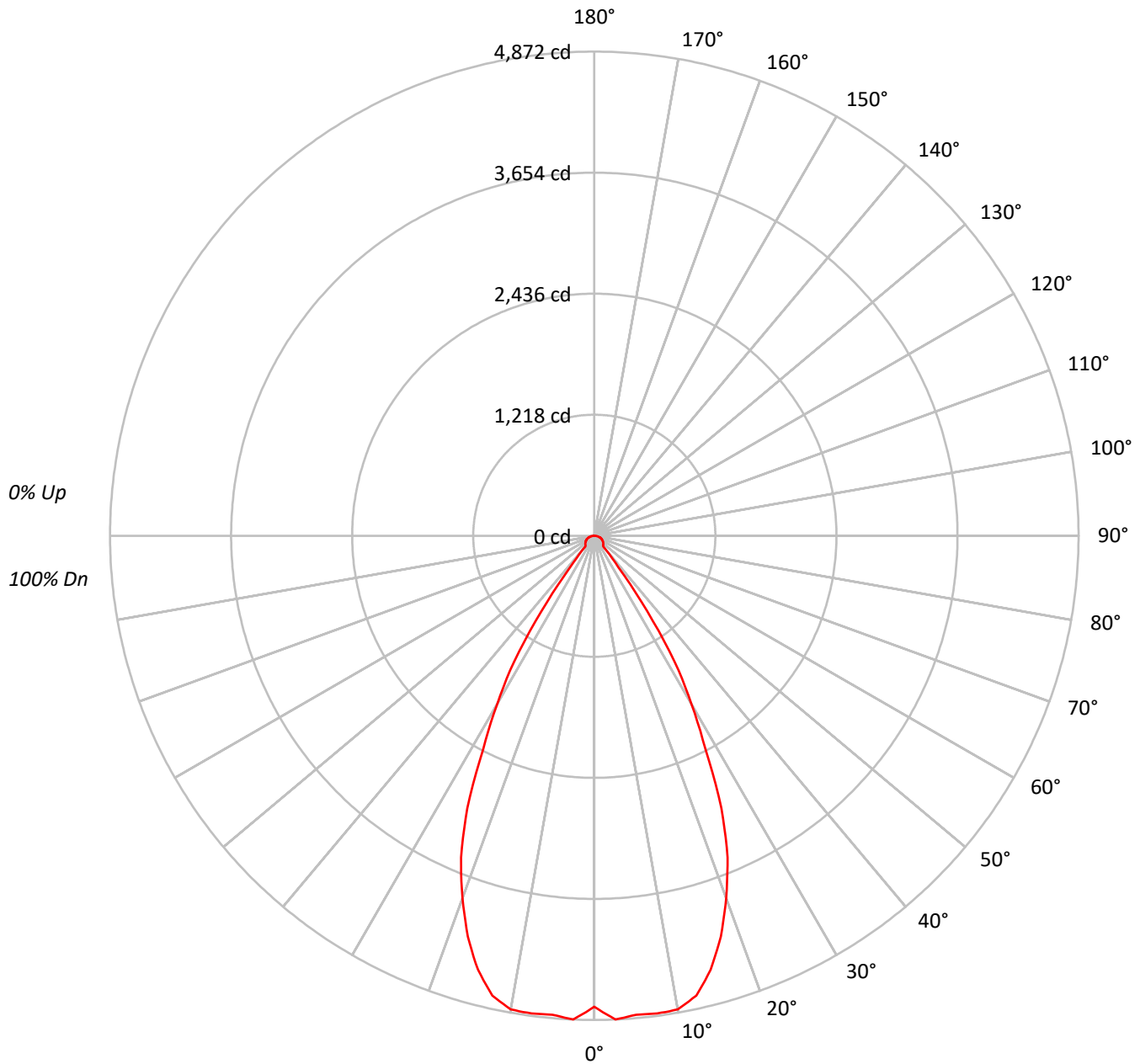


Downlight

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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93		
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86		
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80		
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70		
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66		
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62		
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59		
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55		
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	517819
5°	530557
10°	536958
15°	511529
20°	451011
25°	364790
30°	246750
35°	123646
40°	20054
45°	19639
50°	20024
55°	20325
60°	20891
65°	21355
70°	21883
75°	22121
80°	21330
85°	17801

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 22121 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.3	11.6
10°-20°	1250.9	31.3
20°-30°	1345.8	33.7
30°-40°	585.0	14.7
40°-50°	98.2	2.5
50°-60°	95.6	2.4
60°-70°	81.7	2.0
70°-80°	54.7	1.4
80°-90°	16.4	0.4
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°	3059.0	76.7
0°-40°	3644.0	91.3
0°-60°	3837.8	96.2
0°-90°	3990.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3990.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4739	
5°	4837	462
15°	4522	1251
25°	3026	1346
35°	927	585
45°	127	98
55°	107	96
65°	83	82
75°	52	55
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4739.3
2.5°	4872.5
5°	4837.4
7.5°	4848.5
10°	4839.8
12.5°	4739.9
15°	4522.2
17.5°	4229.9
20°	3878.9
22.5°	3503.3
25°	3025.9
27.5°	2420.2
30°	1955.8
32.5°	1507.4
35°	927.0
37.5°	396.6
40°	140.6
42.5°	129.5
45°	127.1
47.5°	122.7
50°	117.8
52.5°	112.3
55°	106.7
57.5°	101.2
60°	95.6
62.5°	89.4
65°	82.6
67.5°	75.9
70°	68.5
72.5°	60.4
75°	52.4
77.5°	43.2
80°	33.9
82.5°	24.1
85°	14.2
87.5°	4.9
90°	0.0



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— 0°-180°







(END OF REPORT)