

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: P784846

Luminaire Tested: LER4DD40BD010-EC4DR7040509040-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784846
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-EC4DR7040509040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4217.6 lumens
Efficiency: N/A
Efficacy: 119.8 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

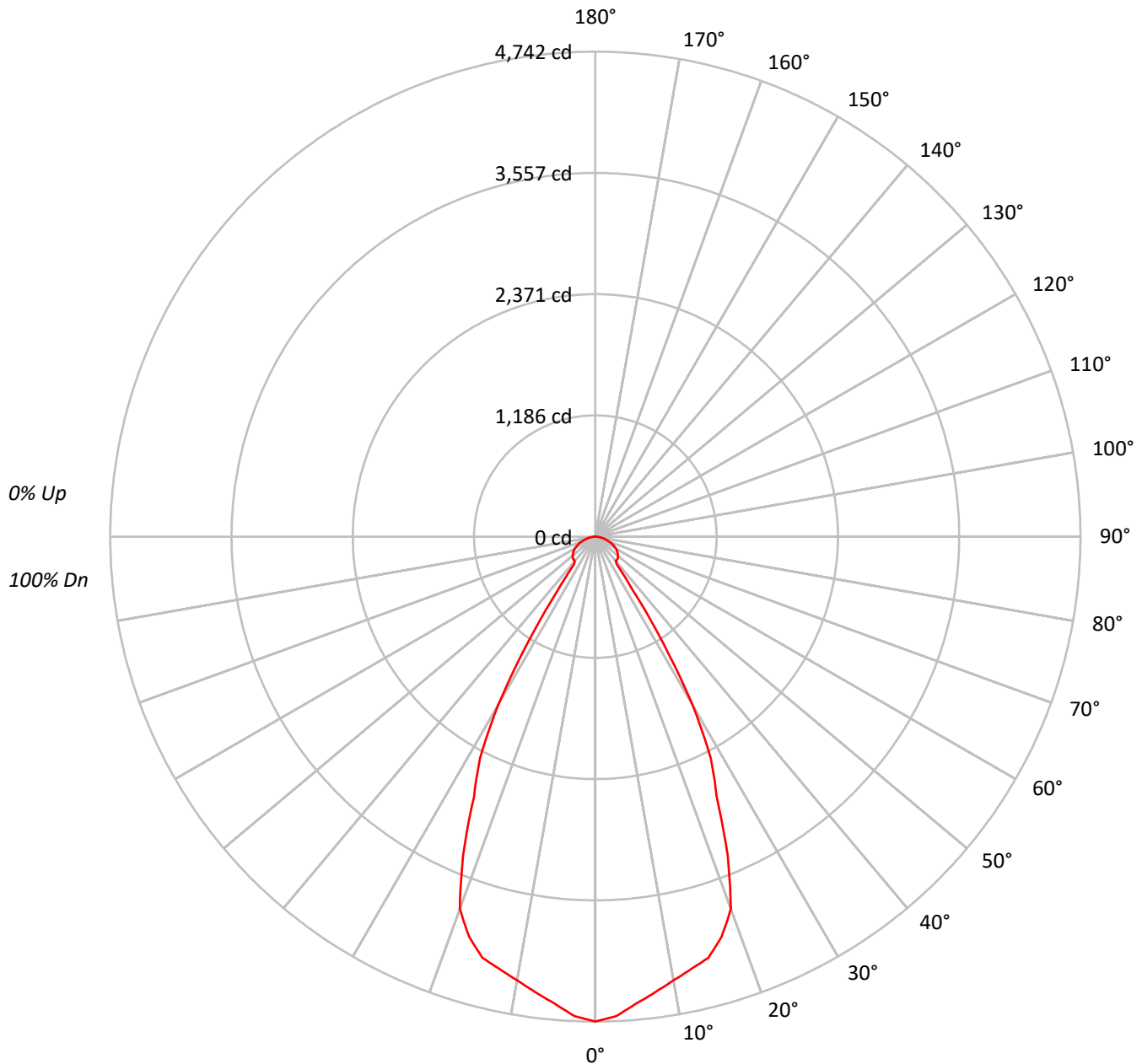


Downlight

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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	518093
5°	502699
10°	488685
15°	482266
20°	450348
25°	338316
30°	239168
35°	84711
40°	44543
45°	47452
50°	49124
55°	50061
60°	50369
65°	49302
70°	46513
75°	43102
80°	38256
85°	31090

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 50370 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.3	10.3
10°-20°	1185.8	28.1
20°-30°	1306.0	31.0
30°-40°	499.0	11.8
40°-50°	235.6	5.6
50°-60°	234.2	5.6
60°-70°	187.6	4.4
70°-80°	107.8	2.6
80°-90°	29.3	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°	2924.1	69.3
0°-40°	3423.1	81.2
0°-60°	3893.0	92.3
0°-90°	4217.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4217.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4742	
5°	4583	432
15°	4264	1186
25°	2806	1306
35°	635	499
45°	307	236
55°	263	234
65°	191	188
75°	102	108
85°	25	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4741.8
2.5°	4692.2
5°	4583.4
7.5°	4492.5
10°	4404.7
12.5°	4330.4
15°	4263.5
17.5°	4102.1
20°	3873.2
22.5°	3379.2
25°	2806.3
27.5°	2443.0
30°	1895.7
32.5°	1224.5
35°	635.1
37.5°	343.1
40°	312.3
42.5°	310.1
45°	307.1
47.5°	300.3
50°	289.0
52.5°	276.3
55°	262.8
57.5°	247.7
60°	230.5
62.5°	211.0
65°	190.7
67.5°	168.2
70°	145.6
72.5°	123.1
75°	102.1
77.5°	80.3
80°	60.8
82.5°	42.8
85°	24.8
87.5°	9.8
90°	0.0



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— 0°-180°







(END OF REPORT)