

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: P781736

Luminaire Tested: LER4D50D010-EC4DR3540509027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR3540509027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4394.1 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

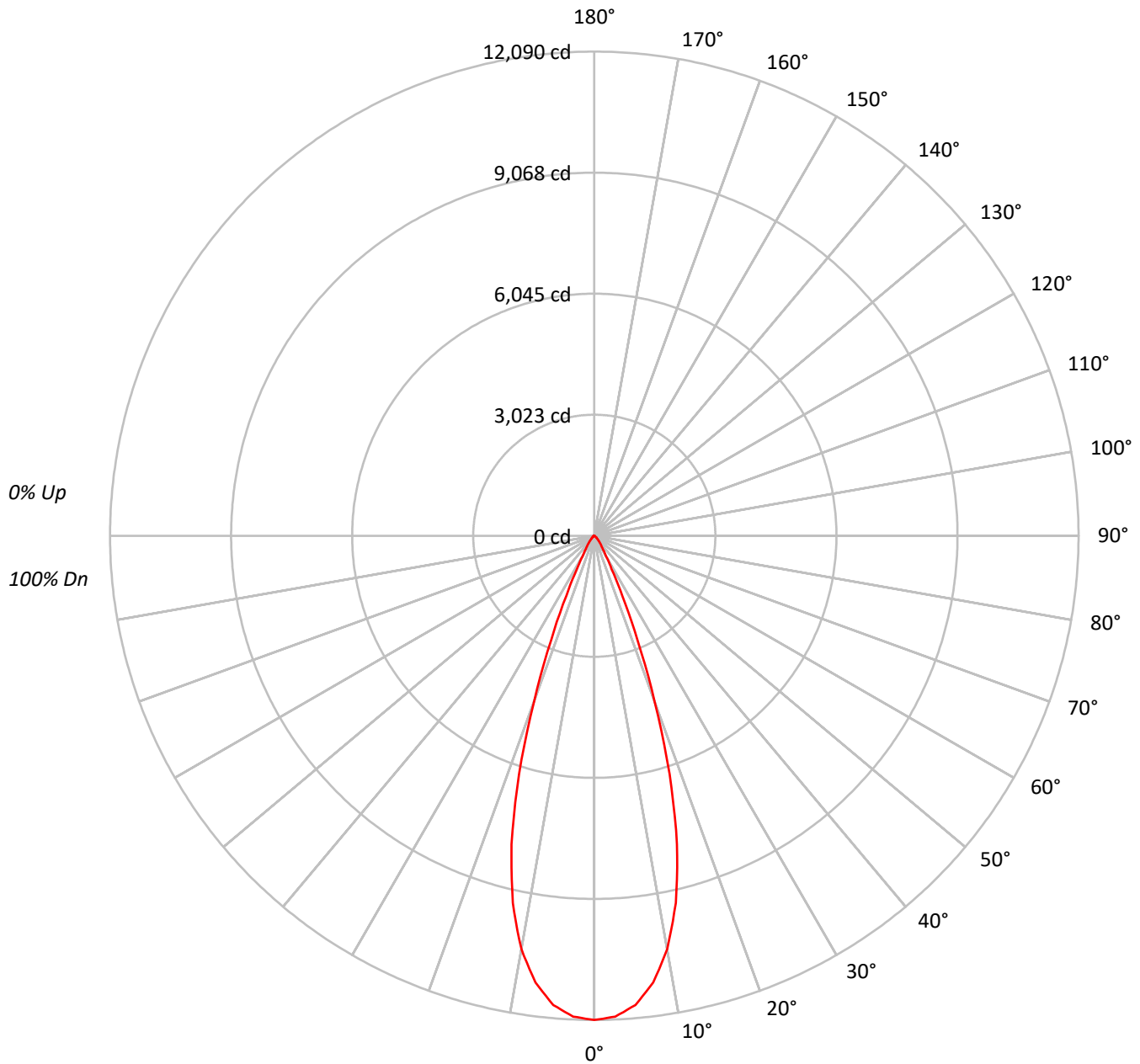


Downlight

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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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96			
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92			
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88			
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84			
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81			
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78			
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75			
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72			
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70			
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1320995
5°	1289957
10°	1162595
15°	902364
20°	511810
25°	199110
30°	74285
35°	40722
40°	26615
45°	16193
50°	10318
55°	7277
60°	5332
65°	2896
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16193 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1081.7	24.6
10°-20°	2111.9	48.1
20°-30°	861.3	19.6
30°-40°	206.1	4.7
40°-50°	85.9	2.0
50°-60°	35.5	0.8
60°-70°	11.1	0.3
70°-80°	0.3	0.0
80°-90°	0.2	0.0
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°	4055.0	92.3
0°-40°	4261.1	97.0
0°-60°	4382.5	99.7
0°-90°	4394.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4394.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12090	
5°	11761	###
15°	7977	2112
25°	1652	861
35°	305	206
45°	105	86
55°	38	36
65°	11	11
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12090.3
2.5°	12017.8
5°	11761.3
7.5°	11249.7
10°	10478.9
12.5°	9393.6
15°	7977.4
17.5°	6245.3
20°	4401.8
22.5°	2806.8
25°	1651.6
27.5°	933.6
30°	588.8
32.5°	413.4
35°	305.3
37.5°	236.0
40°	186.6
42.5°	143.7
45°	104.8
47.5°	78.5
50°	60.7
52.5°	48.1
55°	38.2
57.5°	31.0
60°	24.4
62.5°	17.8
65°	11.2
67.5°	4.0
70°	0.7
72.5°	0.7
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)