

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: P780204

Luminaire Tested: LER4D20D010-EC4DR3520359030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780204
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: LER4D20D010-EC4DR3520359030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1724.8 lumens
Efficiency: N/A
Efficacy: 74.7 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): 23.1
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



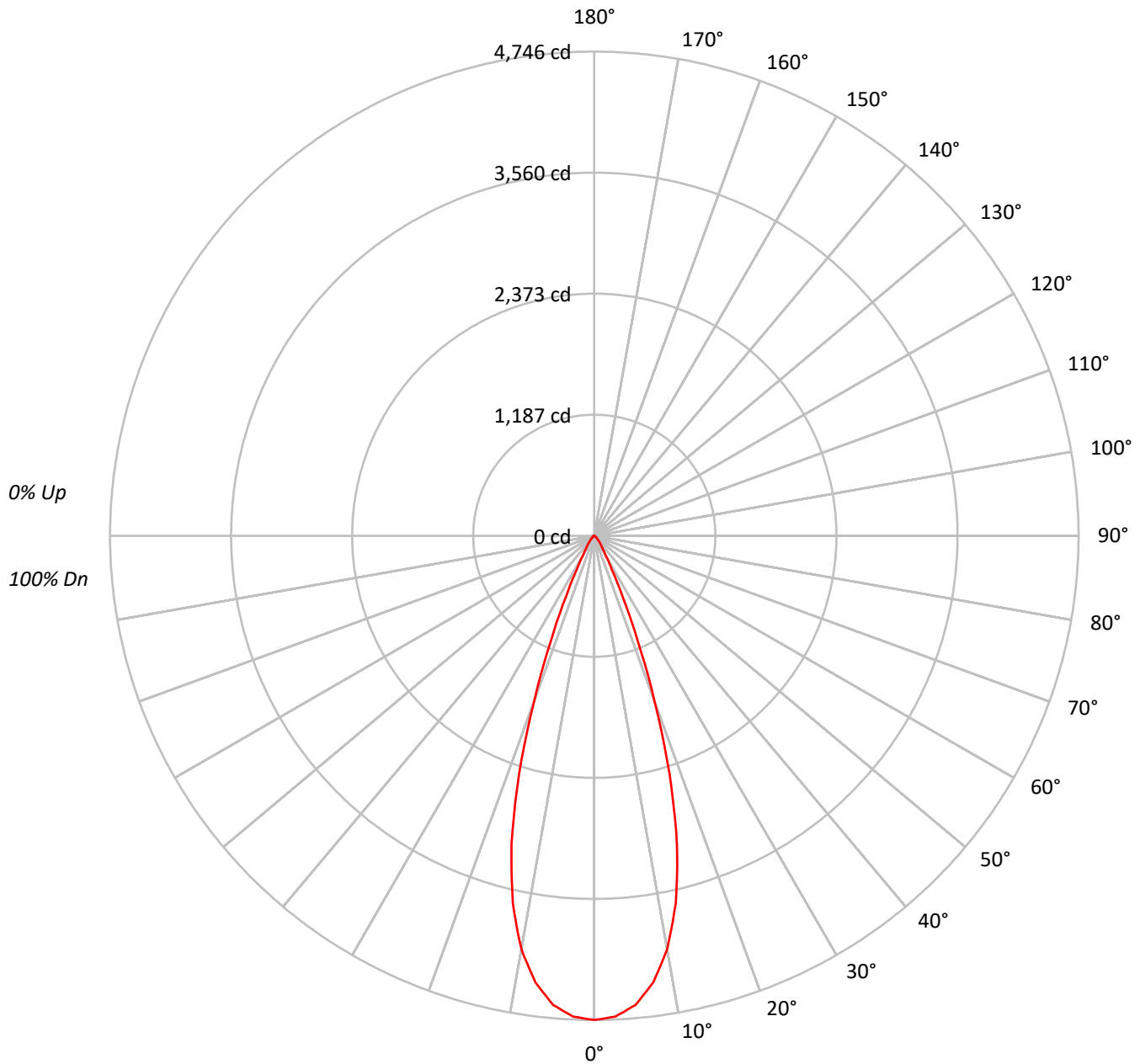
Downlight



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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	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°	518541
5°	506362
10°	456366
15°	354208
20°	200896
25°	78168
30°	29156
35°	15979
40°	10441
45°	6351
50°	4046
55°	2857
60°	2098
65°	1138
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6351 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.6	24.6
10°-20°	829.0	48.1
20°-30°	338.1	19.6
30°-40°	80.9	4.7
40°-50°	33.7	2.0
50°-60°	13.9	0.8
60°-70°	4.4	0.3
70°-80°	0.1	0.0
80°-90°	0.1	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°	1591.7	92.3
0°-40°	1672.6	97.0
0°-60°	1720.3	99.7
0°-90°	1724.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1724.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4746	
5°	4617	425
15°	3131	829
25°	648	338
35°	120	81
45°	41	34
55°	15	14
65°	4	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4745.9
2.5°	4717.4
5°	4616.8
7.5°	4415.9
10°	4113.4
12.5°	3687.3
15°	3131.4
17.5°	2451.5
20°	1727.8
22.5°	1101.8
25°	648.4
27.5°	366.5
30°	231.1
32.5°	162.3
35°	119.8
37.5°	92.6
40°	73.2
42.5°	56.4
45°	41.1
47.5°	30.8
50°	23.8
52.5°	18.9
55°	15.0
57.5°	12.1
60°	9.6
62.5°	7.0
65°	4.4
67.5°	1.5
70°	0.3
72.5°	0.3
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)