

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: P743984

Luminaire Tested: LD4D20D010-EU4DR2015309035-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR2015309035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2171.3 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): 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



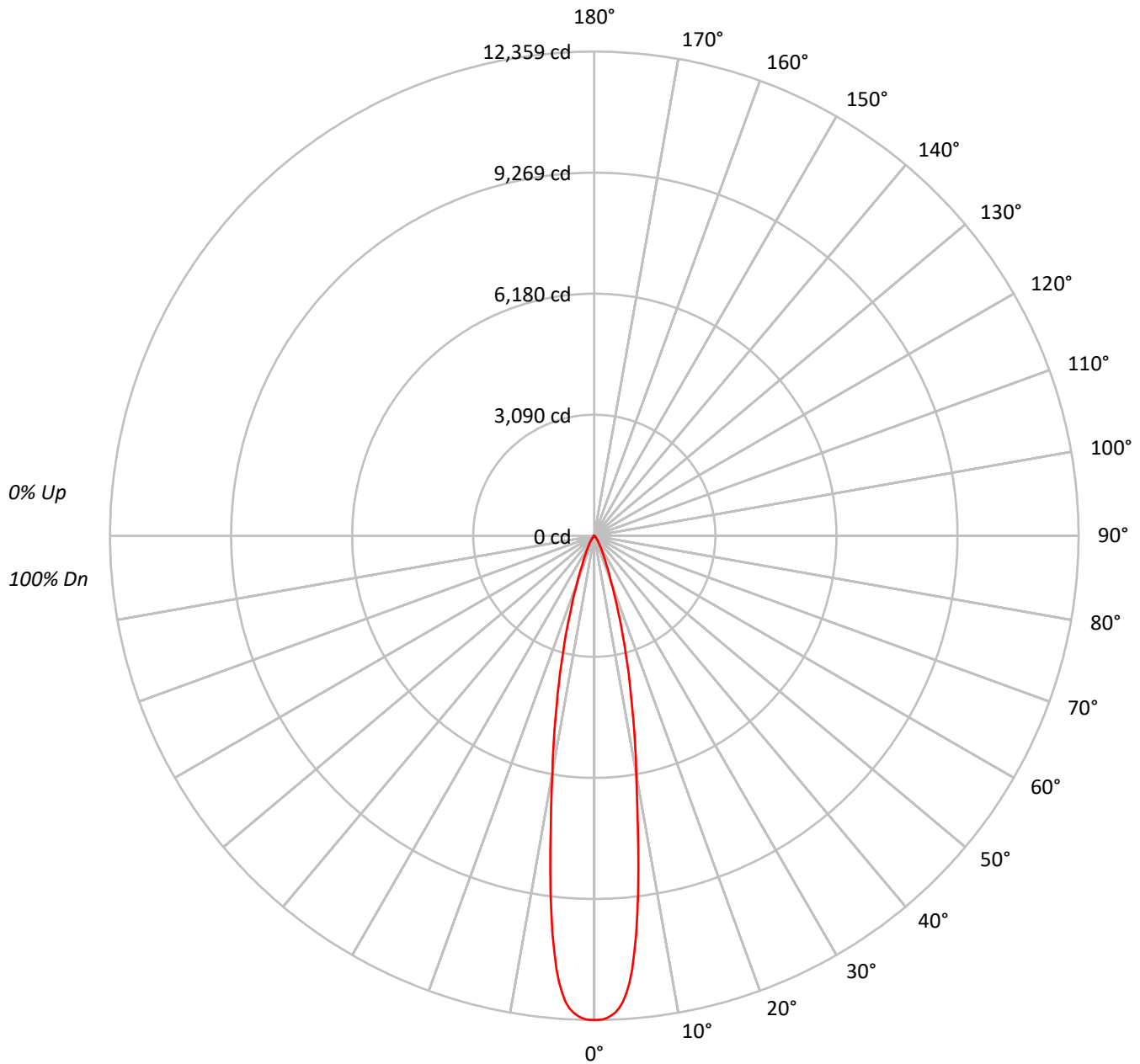
Downlight



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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	115	113	111	109	113	111	109	108	107	106	104		103	102	101		100
2	111	108	105	102	109	106	104	101	103	101	99		100	99	97		98
3	108	103	100	97	106	102	99	96	100	97	95		97	95	93		95
4	105	99	96	93	103	98	95	92	96	93	91		95	92	90		93
5	102	96	92	89	100	95	91	89	94	90	88		92	89	87		91
6	99	93	89	86	98	92	88	86	91	87	85		90	87	84		88
7	96	90	86	83	95	89	86	83	88	85	82		87	84	82		86
8	94	87	83	81	93	87	83	80	86	83	80		85	82	80		84
9	91	85	81	78	91	85	81	78	84	80	78		83	80	78		82
10	89	83	79	76	88	82	79	76	82	78	76		81	78	76		81

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1350332
5°	1218250
10°	683751
15°	347569
20°	147155
25°	67933
30°	35957
35°	19381
40°	10355
45°	6119
50°	3553
55°	1886
60°	1202
65°	853
70°	351
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6119 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	879.9	40.5
10°-20°	866.4	39.9
20°-30°	283.1	13.0
30°-40°	96.4	4.4
40°-50°	32.4	1.5
50°-60°	9.8	0.4
60°-70°	3.2	0.1
70°-80°	0.1	0.0
80°-90°	0.0	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°	2029.4	93.5
0°-40°	2125.8	97.9
0°-60°	2167.9	99.8
0°-90°	2171.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2171.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12359	
5°	11108	880
15°	3073	866
25°	564	283
35°	145	96
45°	40	32
55°	10	10
65°	3	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12358.8
0.5°	12358.8
1°	12343.4
1.5°	12312.6
2°	12256.5
2.5°	12181.6
3°	12076.0
3.5°	11928.5
4°	11709.5
4.5°	11443.2
5°	11107.5
5.5°	10666.2
6°	10213.9
6.5°	9695.6
7°	9188.2
7.5°	8594.0
8°	8063.5
8.5°	7529.8
9°	7036.7
9.5°	6584.4
10°	6162.9
12.5°	4425.2
15°	3072.7
17.5°	2007.3
20°	1265.6
22.5°	819.9
25°	563.5
27.5°	396.2
30°	285.0
32.5°	204.7
35°	145.3
37.5°	101.2
40°	72.6
42.5°	52.8
45°	39.6
47.5°	30.8
50°	20.9
52.5°	13.2
55°	9.9
57.5°	7.7
60°	5.5
62.5°	4.4
65°	3.3



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







67.5°	2.2
70°	1.1



(END OF REPORT)