

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: P780171

Luminaire Tested: LER4D20D010-EC4DR2520359050-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR2520359050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1766.5 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45
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



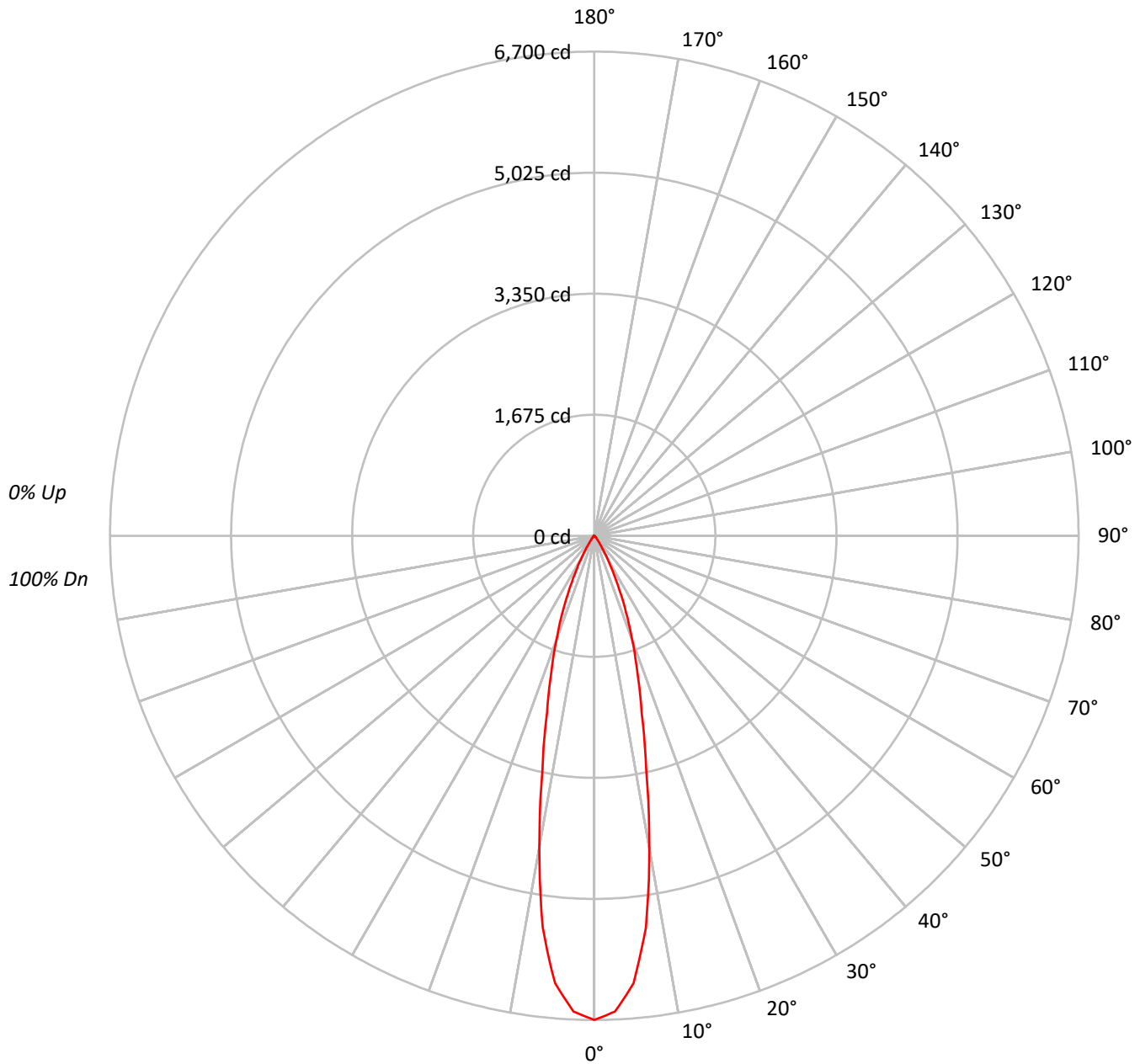
Downlight



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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					0
RW	70	50	30	10	70	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			100
1	115	113	111	109	112	110	109	107		106	105	104			103	102	101			96
2	111	107	104	101	109	105	102	100		102	100	98			99	97	96			92
3	107	102	98	95	105	101	97	94		98	95	93			96	93	91			89
4	103	97	93	90	102	96	93	90		94	91	89			93	90	88			85
5	100	93	89	86	98	93	89	86		91	87	85			89	86	84			82
6	97	90	85	82	95	89	85	82		88	84	81			87	83	81			79
7	93	87	82	79	92	86	82	79		85	81	78			84	80	78			77
8	91	84	79	76	90	83	79	76		82	78	76			81	78	75			74
9	88	81	76	73	87	80	76	73		80	76	73			79	75	73			72
10	85	78	74	71	85	78	74	71		77	73	71			76	73	71			69

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	732036
5°	681792
10°	486344
15°	286441
20°	178223
25°	97819
30°	44725
35°	16940
40°	7673
45°	4620
50°	1921
55°	1238
60°	874
65°	569
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4620 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.2	30.2
10°-20°	723.6	41.0
20°-30°	382.9	21.7
30°-40°	94.5	5.4
40°-50°	23.1	1.3
50°-60°	6.1	0.3
60°-70°	2.0	0.1
70°-80°	0.0	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°	1640.8	92.9
0°-40°	1735.3	98.2
0°-60°	1764.4	99.9
0°-90°	1766.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1766.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6700	
5°	6216	534
15°	2532	724
25°	811	383
35°	127	95
45°	30	23
55°	6	6
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6699.9
2.5°	6589.7
5°	6216.3
7.5°	5466.1
10°	4383.6
12.5°	3313.7
15°	2532.3
17.5°	1973.5
20°	1532.8
22.5°	1149.6
25°	811.4
27.5°	544.1
30°	354.5
32.5°	215.7
35°	127.0
37.5°	77.7
40°	53.8
42.5°	41.1
45°	29.9
47.5°	18.0
50°	11.3
52.5°	8.2
55°	6.5
57.5°	5.0
60°	4.0
62.5°	3.1
65°	2.2
67.5°	0.9
70°	0.3
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°







(END OF REPORT)