

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: P780226

Luminaire Tested: LER4D20D010-EC4DR4020359027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR4020359027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2060.6 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
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



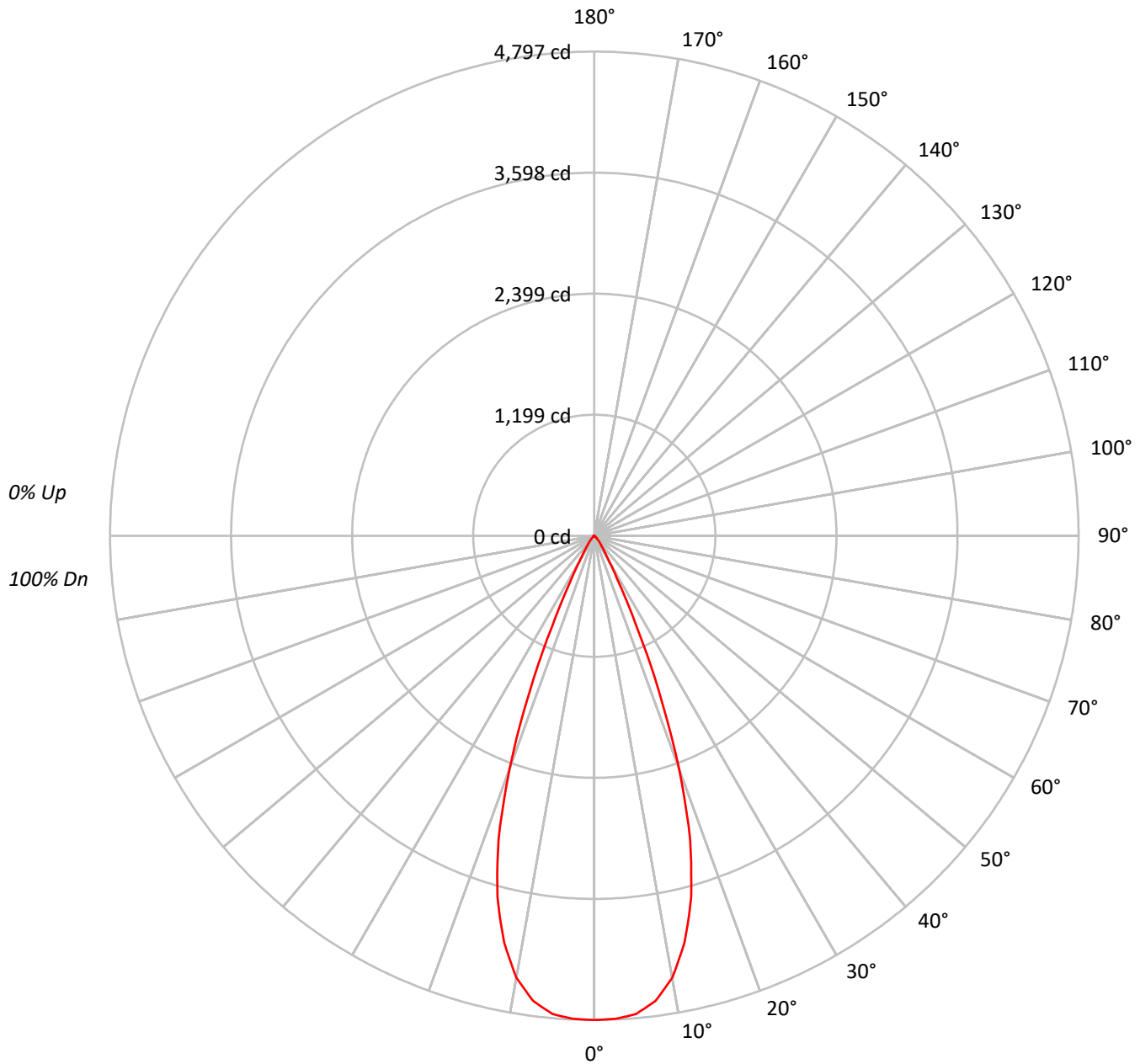
Downlight



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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	112	110	108	112	110	108	107		106	105	103			103	101	100			96
2	110	106	103	100	108	105	102	99		102	99	97			99	97	95			92
3	106	101	97	94	104	100	96	93		97	94	92			95	93	90			88
4	102	97	92	89	101	95	91	88		93	90	87			92	89	86			84
5	99	92	88	84	97	91	87	84		90	86	83			88	85	83			81
6	95	88	84	80	94	88	83	80		86	82	80			85	82	79			77
7	92	85	80	77	91	84	80	77		83	79	76			82	79	76			74
8	89	82	77	74	88	81	77	74		80	76	73			79	76	73			72
9	86	79	74	71	85	78	74	71		77	73	71			76	73	70			69
10	83	76	71	68	82	75	71	68		75	71	68			74	70	68			67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	524168
5°	521629
10°	493045
15°	419159
20°	285682
25°	119194
30°	37483
35°	17420
40°	9642
45°	4419
50°	2142
55°	1181
60°	612
65°	233
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4419 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.1	21.6
10°-20°	994.9	48.3
20°-30°	498.0	24.2
30°-40°	91.3	4.4
40°-50°	25.2	1.2
50°-60°	5.9	0.3
60°-70°	1.2	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°	1937.0	94.0
0°-40°	2028.3	98.4
0°-60°	2059.4	99.9
0°-90°	2060.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2060.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4797	
5°	4756	444
15°	3706	995
25°	989	498
35°	131	91
45°	29	25
55°	6	6
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4797.4
2.5°	4790.4
5°	4756.0
7.5°	4646.1
10°	4444.0
12.5°	4129.0
15°	3705.6
17.5°	3154.8
20°	2457.0
22.5°	1675.1
25°	988.7
27.5°	522.7
30°	297.1
32.5°	192.0
35°	130.6
37.5°	93.3
40°	67.6
42.5°	46.2
45°	28.6
47.5°	18.2
50°	12.6
52.5°	9.0
55°	6.2
57.5°	3.9
60°	2.8
62.5°	1.7
65°	0.9
67.5°	0.6
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)