

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: P780198

Luminaire Tested: LER4D20D010-EC4DR3520359024-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780198
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-EC4DR3520359024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1698.3 lumens
Efficiency: N/A
Efficacy: 73.5 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): 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



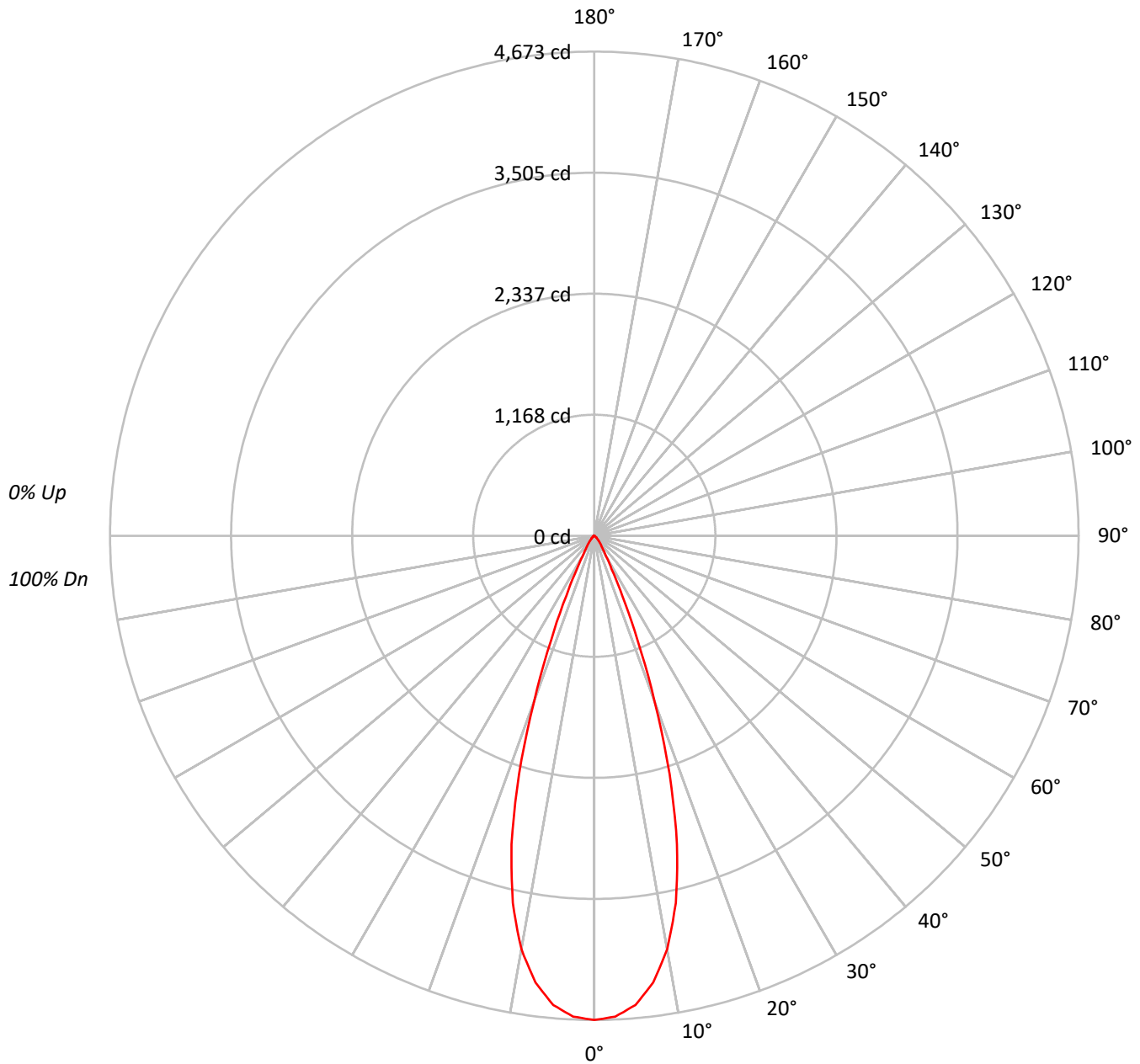
Downlight



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	112	110	108	112	110	108	107		106	105	103		103	101	100		99	98	98
2	110	106	103	101	108	105	102	99		102	99	97		99	97	95		96	95	93
3	106	101	97	94	105	100	96	93		97	95	92		95	93	91		93	91	89
4	103	97	92	89	101	96	92	89		94	90	88		92	89	87		90	88	86
5	99	93	88	85	98	92	87	84		90	86	84		89	85	83		87	84	82
6	96	89	84	81	94	88	84	81		87	83	80		85	82	80		84	81	79
7	93	85	81	78	91	85	80	77		84	80	77		83	79	77		82	79	76
8	90	82	78	74	88	82	77	74		81	77	74		80	76	74		79	76	73
9	87	79	75	72	86	79	75	72		78	74	71		77	74	71		77	73	71
10	84	77	72	69	83	76	72	69		76	72	69		75	71	69		74	71	69

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	510576
5°	498575
10°	449344
15°	348768
20°	197815
25°	76963
30°	28715
35°	15739
40°	10284
45°	6258
50°	3978
55°	2819
60°	2076
65°	1138
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6258 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.1	24.6
10°-20°	816.3	48.1
20°-30°	332.9	19.6
30°-40°	79.7	4.7
40°-50°	33.2	2.0
50°-60°	13.8	0.8
60°-70°	4.3	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°	1567.3	92.3
0°-40°	1646.9	97.0
0°-60°	1693.9	99.7
0°-90°	1698.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1698.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4673	
5°	4546	418
15°	3083	816
25°	638	333
35°	118	80
45°	40	33
55°	15	14
65°	4	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4673.0
2.5°	4644.9
5°	4545.8
7.5°	4348.1
10°	4050.1
12.5°	3630.7
15°	3083.3
17.5°	2413.8
20°	1701.3
22.5°	1084.8
25°	638.4
27.5°	360.8
30°	227.6
32.5°	159.8
35°	118.0
37.5°	91.2
40°	72.1
42.5°	55.6
45°	40.5
47.5°	30.3
50°	23.4
52.5°	18.6
55°	14.8
57.5°	12.0
60°	9.5
62.5°	6.9
65°	4.4
67.5°	1.5
70°	0.2
72.5°	0.2
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)