

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: P780217

Luminaire Tested: LER4D20D010-EC4DR3520359050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780217
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-EC4DR3520359050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1987.6 lumens
Efficiency: N/A
Efficacy: 86.0 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



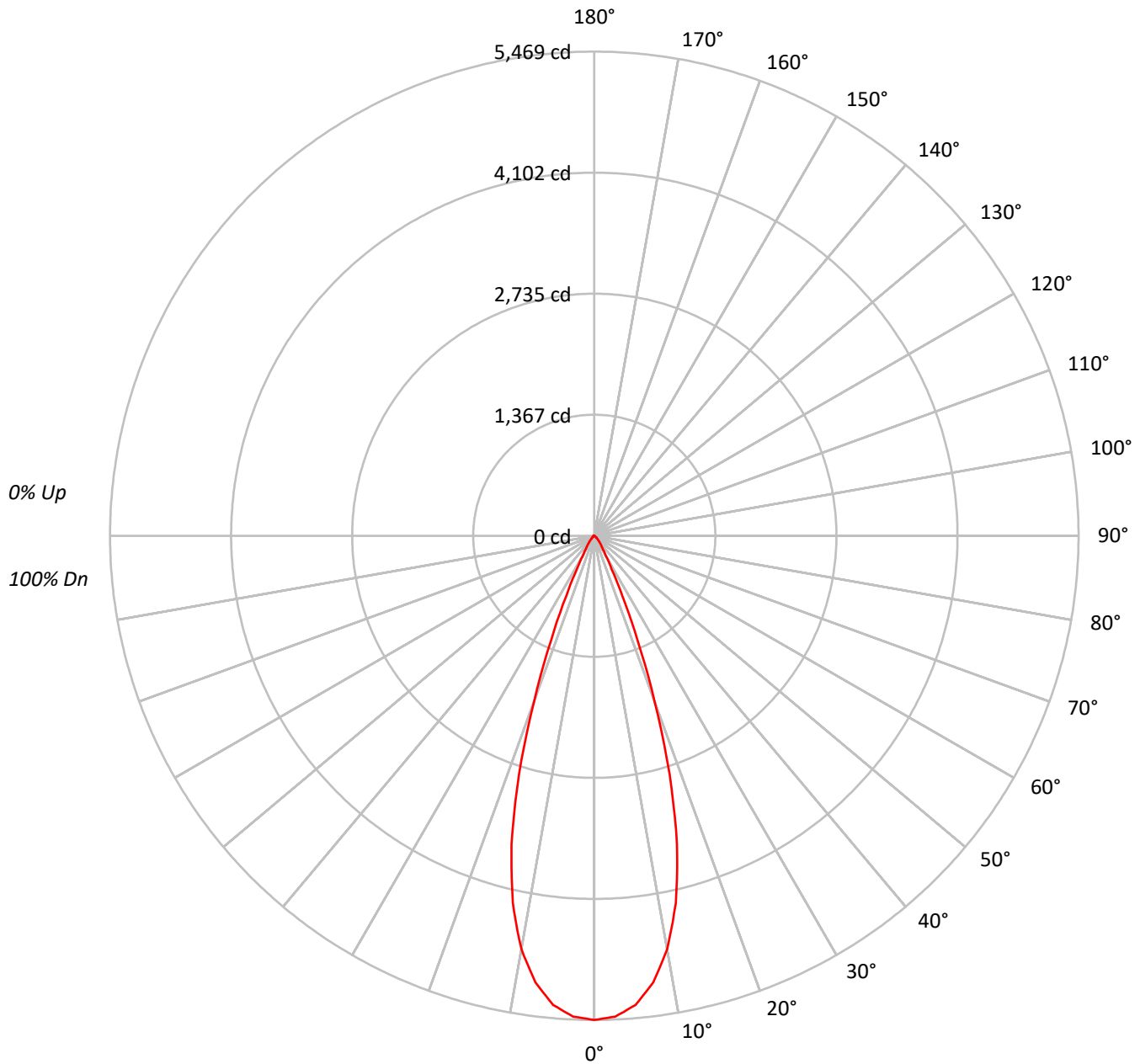
Downlight



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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°	597525
5°	583488
10°	525885
15°	408164
20°	231511
25°	90067
30°	33597
35°	18420
40°	12038
45°	7324
50°	4657
55°	3295
60°	2426
65°	1293
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7324 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.3	24.6
10°-20°	955.3	48.1
20°-30°	389.6	19.6
30°-40°	93.2	4.7
40°-50°	38.8	2.0
50°-60°	16.1	0.8
60°-70°	5.0	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°	1834.2	92.3
0°-40°	1927.4	97.0
0°-60°	1982.4	99.7
0°-90°	1987.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1987.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5469	
5°	5320	489
15°	3608	955
25°	747	390
35°	138	93
45°	47	39
55°	17	16
65°	5	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5468.8
2.5°	5436.0
5°	5320.0
7.5°	5088.6
10°	4740.0
12.5°	4249.1
15°	3608.4
17.5°	2824.9
20°	1991.1
22.5°	1269.6
25°	747.1
27.5°	422.3
30°	266.3
32.5°	187.0
35°	138.1
37.5°	106.8
40°	84.4
42.5°	65.0
45°	47.4
47.5°	35.5
50°	27.4
52.5°	21.8
55°	17.3
57.5°	14.0
60°	11.1
62.5°	8.1
65°	5.0
67.5°	1.8
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)