

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: P780253

Luminaire Tested: LER4D20D010-EC4DR4520359030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR4520359030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1988.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
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



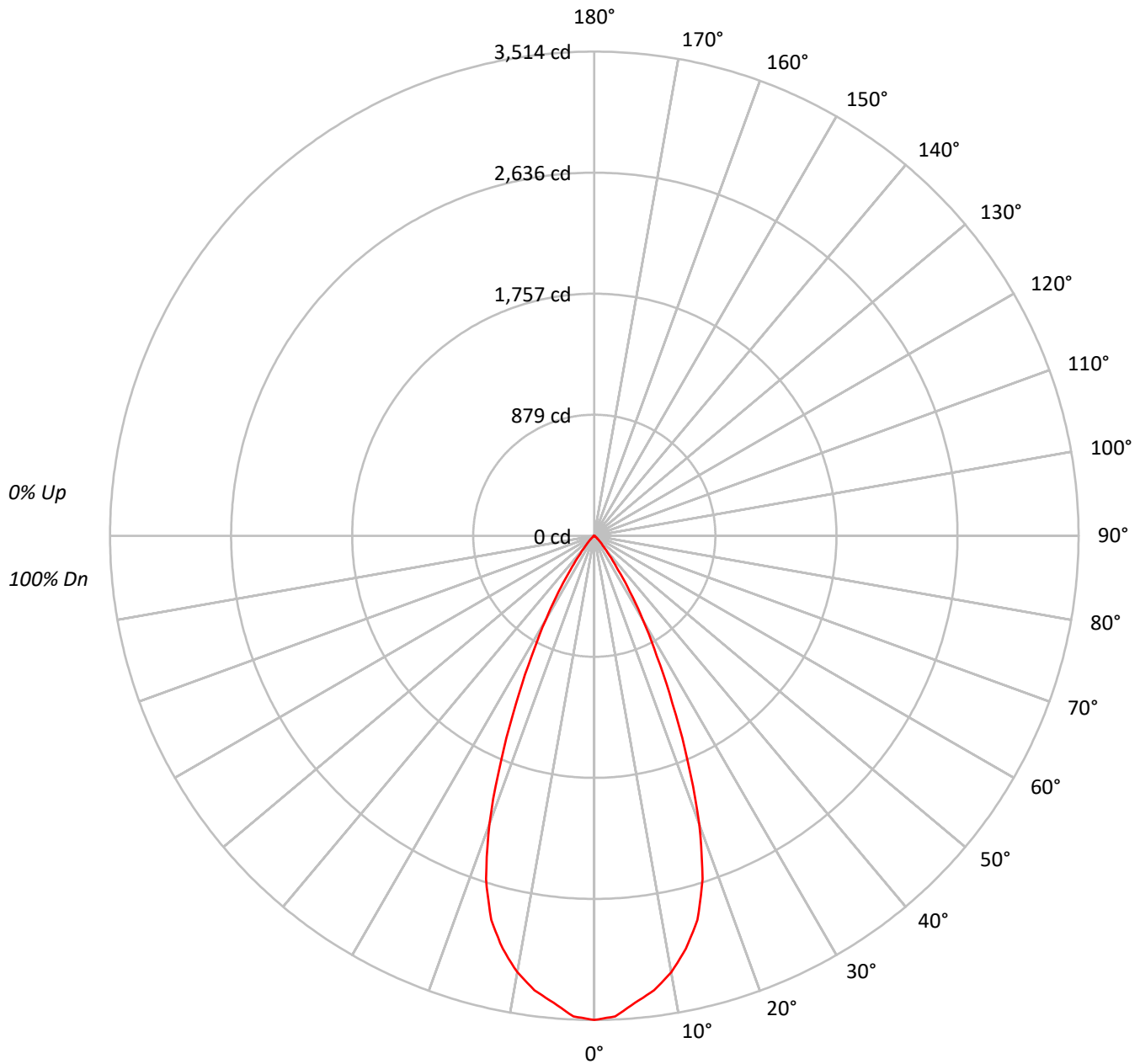
Downlight



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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				0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95			
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90			
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85			
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81			
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77			
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73			
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69			
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66			
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63			
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	383931
5°	372993
10°	356848
15°	326597
20°	259102
25°	161762
30°	89160
35°	40042
40°	15761
45°	7432
50°	3519
55°	1848
60°	896
65°	207
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7432 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.5	16.1
10°-20°	786.4	39.6
20°-30°	622.8	31.3
30°-40°	207.4	10.4
40°-50°	41.1	2.1
50°-60°	9.4	0.5
60°-70°	1.3	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°	1728.7	87.0
0°-40°	1936.1	97.4
0°-60°	1986.6	99.9
0°-90°	1988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1988.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3514	
5°	3401	320
15°	2887	786
25°	1342	623
35°	300	207
45°	48	41
55°	10	9
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3513.9
2.5°	3490.9
5°	3400.8
7.5°	3326.4
10°	3216.4
12.5°	3070.0
15°	2887.3
17.5°	2612.5
20°	2228.4
22.5°	1770.7
25°	1341.8
27.5°	982.5
30°	706.7
32.5°	480.6
35°	300.2
37.5°	178.0
40°	110.5
42.5°	72.7
45°	48.1
47.5°	30.9
50°	20.7
52.5°	13.8
55°	9.7
57.5°	6.4
60°	4.1
62.5°	2.2
65°	0.8
67.5°	0.3
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)