

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: P780641

Luminaire Tested: LER4D25D010-EC4DR6520359035-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D25D010-EC4DR6520359035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2320.2 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 25.1
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



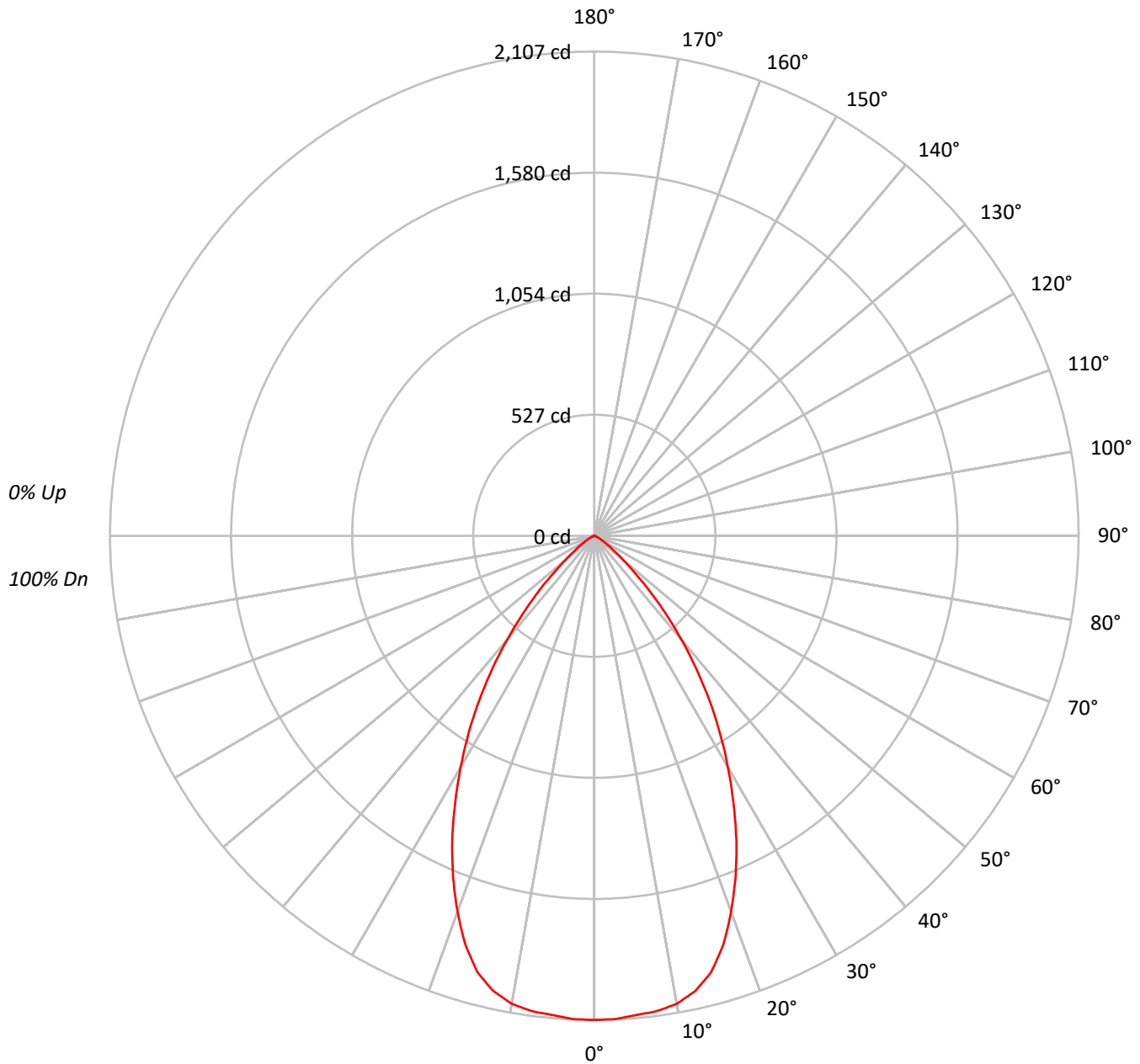
Downlight



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	123039
5°	122724
10°	122625
15°	118842
20°	108188
25°	94278
30°	78411
35°	62136
40°	44845
45°	28330
50°	14765
55°	7851
60°	4123
65°	2266
70°	956
75°	1038
80°	740
85°	603

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28330 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	8.6
10°-20°	545.6	23.5
20°-30°	666.8	28.7
30°-40°	541.1	23.3
40°-50°	269.6	11.6
50°-60°	75.2	3.2
60°-70°	17.1	0.7
70°-80°	4.5	0.2
80°-90°	1.1	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°	1411.6	60.8
0°-40°	1952.7	84.2
0°-60°	2297.5	99.0
0°-90°	2320.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2320.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2107	
5°	2093	199
15°	1966	546
25°	1463	667
35°	872	541
45°	343	270
55°	77	75
65°	16	17
75°	5	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2106.7
2.5°	2105.1
5°	2093.3
7.5°	2086.5
10°	2067.7
12.5°	2029.3
15°	1965.5
17.5°	1865.8
20°	1740.7
22.5°	1605.8
25°	1463.0
27.5°	1310.5
30°	1162.7
32.5°	1016.9
35°	871.5
37.5°	726.3
40°	588.2
42.5°	458.8
45°	343.0
47.5°	239.0
50°	162.5
52.5°	112.1
55°	77.1
57.5°	52.0
60°	35.3
62.5°	24.5
65°	16.4
67.5°	8.4
70°	5.6
72.5°	5.3
75°	4.6
77.5°	3.1
80°	2.2
82.5°	1.5
85°	0.9
87.5°	0.6
90°	0.0



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— 0°-180°







(END OF REPORT)