

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: P744695

Luminaire Tested: LD4D20D010-EU4DR6520359040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P744695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR6520359040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1752.9 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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



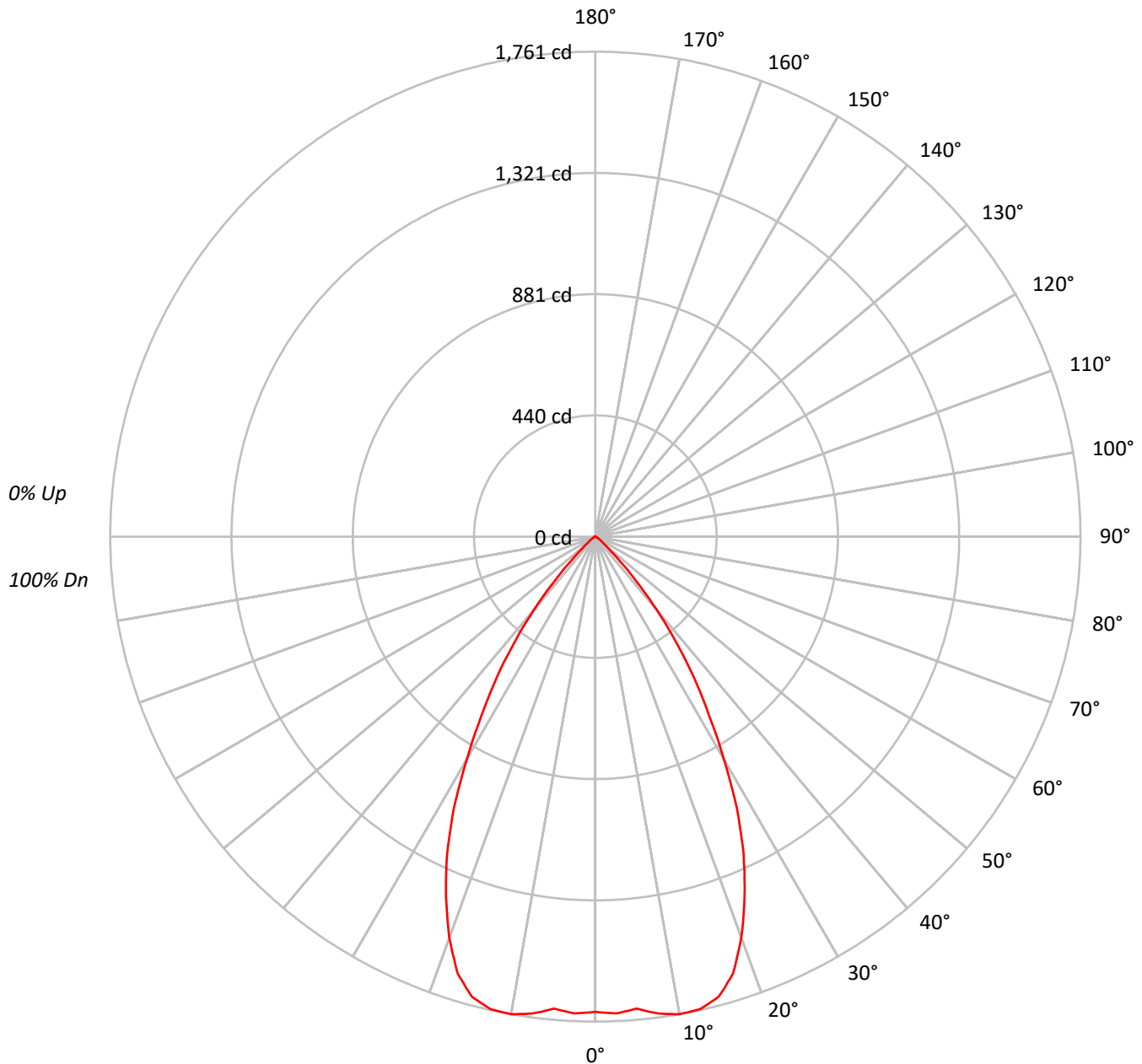
Downlight



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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	113	111	108	106		111	108	106	104		104	103	101		101	99	98		97	96	95
2	108	103	99	95		106	101	97	94		98	95	92		95	92	90		92	90	88
3	102	96	91	87		100	94	90	86		92	88	85		89	86	83		87	84	82
4	97	89	84	79		95	88	83	79		86	82	78		84	80	77		82	79	76
5	92	83	78	73		90	83	77	73		81	76	72		79	75	72		77	74	71
6	87	78	72	68		86	77	72	68		76	71	67		74	70	67		73	69	66
7	83	73	67	63		81	73	67	63		71	66	62		70	66	62		69	65	62
8	79	69	63	59		77	68	63	59		67	62	58		66	62	58		65	61	58
9	75	65	59	55		74	65	59	55		64	58	55		63	58	55		62	58	54
10	71	61	56	52		70	61	55	52		60	55	51		59	55	51		59	54	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	188562
5°	188723
10°	195365
15°	195689
20°	180165
25°	153504
30°	117509
35°	83031
40°	49008
45°	19886
50°	7224
55°	4019
60°	2294
65°	1267
70°	1342
75°	1055
80°	1070
85°	878

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19886 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	9.5
10°-20°	479.4	27.3
20°-30°	575.1	32.8
30°-40°	386.5	22.1
40°-50°	115.7	6.6
50°-60°	20.4	1.2
60°-70°	5.8	0.3
70°-80°	2.9	0.2
80°-90°	0.9	0.1
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°	1220.7	69.6
0°-40°	1607.2	91.7
0°-60°	1743.3	99.5
0°-90°	1752.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1726	
5°	1721	166
15°	1730	479
25°	1273	575
35°	622	387
45°	129	116
55°	21	20
65°	5	6
75°	2	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1725.8
2.5°	1733.2
5°	1720.7
7.5°	1746.7
10°	1760.9
12.5°	1757.5
15°	1730.0
17.5°	1662.8
20°	1549.5
22.5°	1416.1
25°	1273.3
27.5°	1112.2
30°	931.4
32.5°	767.6
35°	622.5
37.5°	479.0
40°	343.6
42.5°	224.4
45°	128.7
47.5°	68.2
50°	42.5
52.5°	29.4
55°	21.1
57.5°	15.2
60°	10.5
62.5°	6.9
65°	4.9
67.5°	4.4
70°	4.2
72.5°	3.2
75°	2.5
77.5°	2.2
80°	1.7
82.5°	1.2
85°	0.7
87.5°	0.5
90°	0.0



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— 0°-180°







(END OF REPORT)