

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: P779722

Luminaire Tested: LER4D10D010-EC4DR650210IC9027-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P779722
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: LER4D10D010-EC4DR650210IC9027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 937.4 lumens
Efficiency: N/A
Efficacy: 80.1 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): 11.7
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



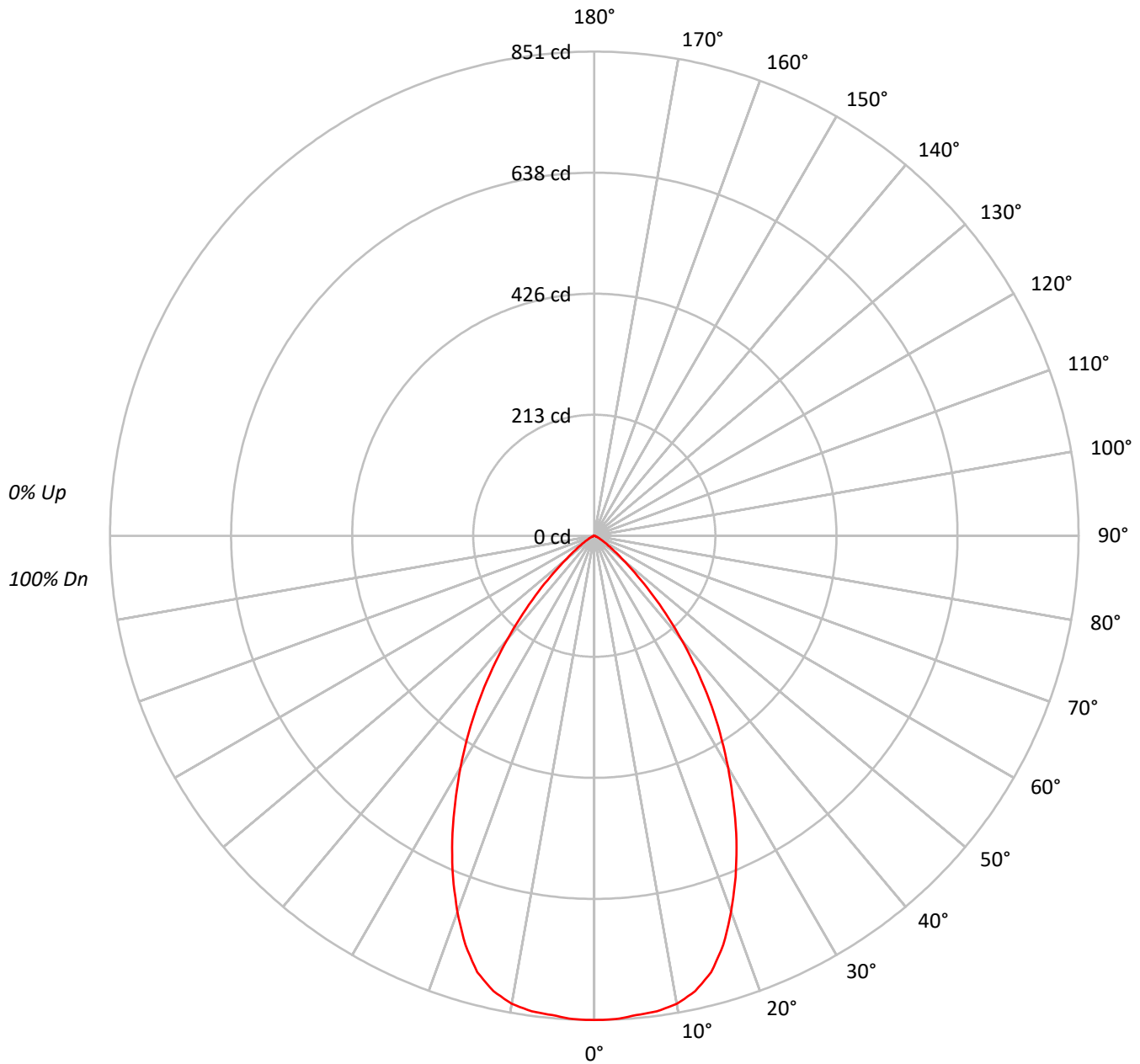
Downlight



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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	110	107	105		111	108	105	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94		105	100	96	92		97	93	90		94	91	88		91	89	87
3	101	94	88	84		99	92	87	83		90	86	82		87	84	81		85	82	80
4	95	87	81	76		93	86	80	76		84	79	75		82	77	74		80	76	73
5	90	81	74	70		88	80	74	69		78	73	69		76	72	68		75	71	68
6	85	75	69	64		83	74	68	64		73	67	63		71	67	63		70	66	62
7	80	70	64	59		79	69	63	59		68	63	59		67	62	58		66	61	58
8	76	66	59	55		75	65	59	55		64	58	54		63	58	54		62	57	54
9	72	61	55	51		71	61	55	51		60	54	51		59	54	50		58	54	50
10	68	58	52	47		67	57	51	47		57	51	47		56	51	47		55	50	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49708
5°	49581
10°	49537
15°	48015
20°	43705
25°	38091
30°	31683
35°	25104
40°	18115
45°	11448
50°	5970
55°	3177
60°	1670
65°	912
70°	376
75°	429
80°	303
85°	268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11448 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	8.6
10°-20°	220.4	23.5
20°-30°	269.4	28.7
30°-40°	218.6	23.3
40°-50°	108.9	11.6
50°-60°	30.4	3.2
60°-70°	6.9	0.7
70°-80°	1.8	0.2
80°-90°	0.4	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°	570.3	60.8
0°-40°	788.9	84.2
0°-60°	928.2	99.0
0°-90°	937.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	937.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	851	
5°	846	80
15°	794	220
25°	591	269
35°	352	219
45°	139	109
55°	31	30
65°	7	7
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	851.1
2.5°	850.5
5°	845.7
7.5°	843.0
10°	835.3
12.5°	819.8
15°	794.1
17.5°	753.8
20°	703.2
22.5°	648.8
25°	591.1
27.5°	529.4
30°	469.8
32.5°	410.9
35°	352.1
37.5°	293.4
40°	237.6
42.5°	185.3
45°	138.6
47.5°	96.5
50°	65.7
52.5°	45.3
55°	31.2
57.5°	21.0
60°	14.3
62.5°	9.9
65°	6.6
67.5°	3.4
70°	2.2
72.5°	2.1
75°	1.9
77.5°	1.3
80°	0.9
82.5°	0.6
85°	0.4
87.5°	0.2
90°	0.0



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— 0°-180°







(END OF REPORT)