

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: P779426

Luminaire Tested: LER4D08D010-EC4DR650210IC9050-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P779426
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: LER4D08D010-EC4DR650210IC9050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 776.2 lumens
Efficiency: N/A
Efficacy: 87.2 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): 8.9
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



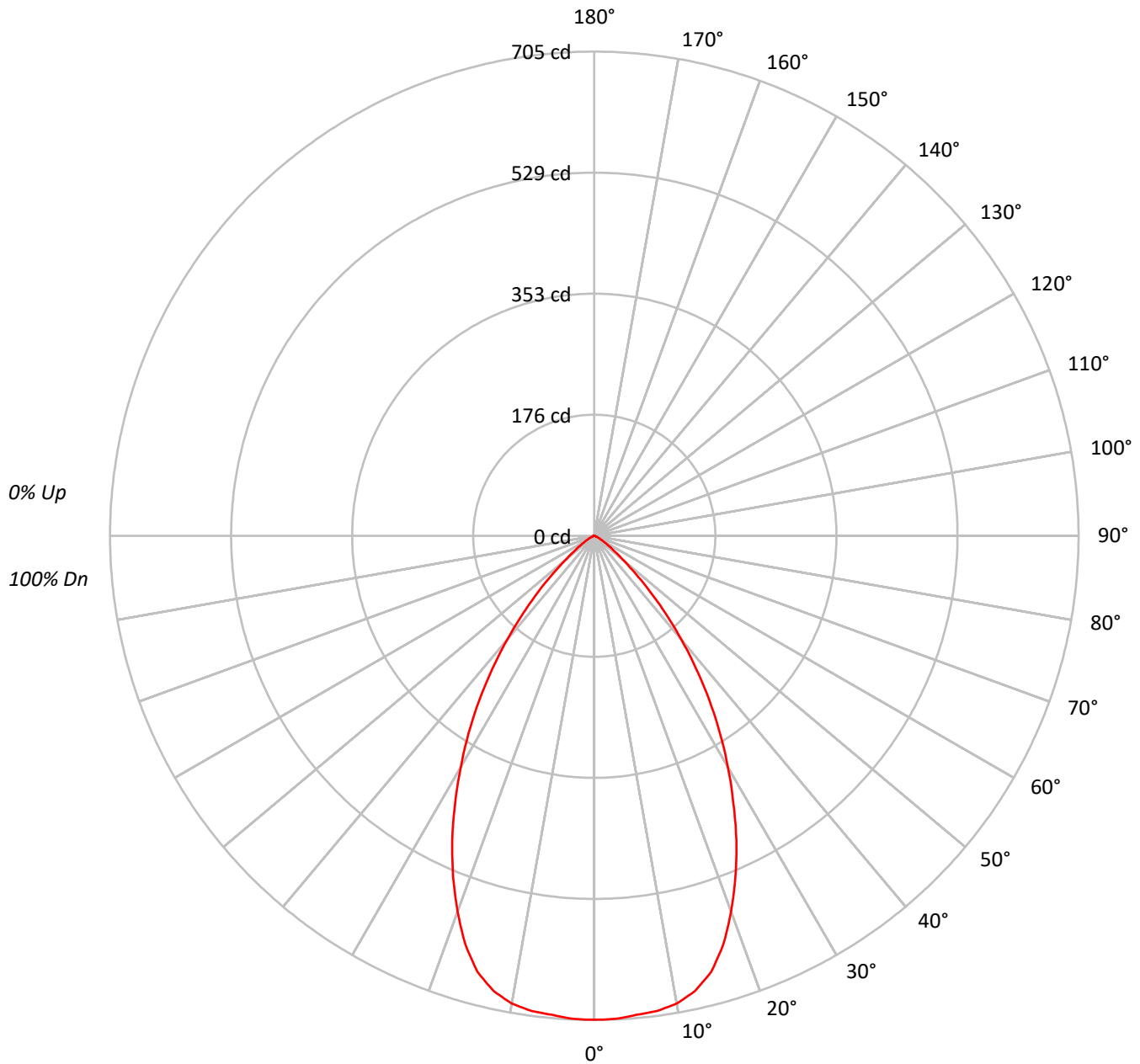
Downlight



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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°	41157
5°	41056
10°	41021
15°	39755
20°	36191
25°	31538
30°	26234
35°	20783
40°	15004
45°	9482
50°	4943
55°	2627
60°	1378
65°	760
70°	324
75°	338
80°	235
85°	201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9482 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	8.6
10°-20°	182.5	23.5
20°-30°	223.1	28.7
30°-40°	181.0	23.3
40°-50°	90.2	11.6
50°-60°	25.2	3.2
60°-70°	5.7	0.7
70°-80°	1.5	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°	472.2	60.8
0°-40°	653.2	84.2
0°-60°	768.6	99.0
0°-90°	776.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	776.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	705	
5°	700	67
15°	658	182
25°	489	223
35°	292	181
45°	115	90
55°	26	25
65°	6	6
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	704.7
2.5°	704.2
5°	700.3
7.5°	698.0
10°	691.7
12.5°	678.8
15°	657.5
17.5°	624.2
20°	582.3
22.5°	537.1
25°	489.4
27.5°	438.4
30°	389.0
32.5°	340.2
35°	291.5
37.5°	242.9
40°	196.8
42.5°	153.5
45°	114.8
47.5°	79.9
50°	54.4
52.5°	37.5
55°	25.8
57.5°	17.4
60°	11.8
62.5°	8.2
65°	5.5
67.5°	2.8
70°	1.9
72.5°	1.8
75°	1.5
77.5°	1.0
80°	0.7
82.5°	0.5
85°	0.3
87.5°	0.2
90°	0.0



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— 0°-180°







(END OF REPORT)