

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: P780044

Luminaire Tested: LER4D15D010-EC4DR650215IC9040-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780044
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: LER4D15D010-EC4DR650215IC9040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

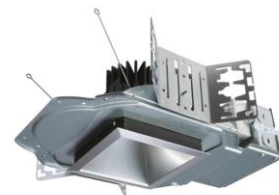
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1247.6 lumens
Efficiency: N/A
Efficacy: 79.0 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): 15.8
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



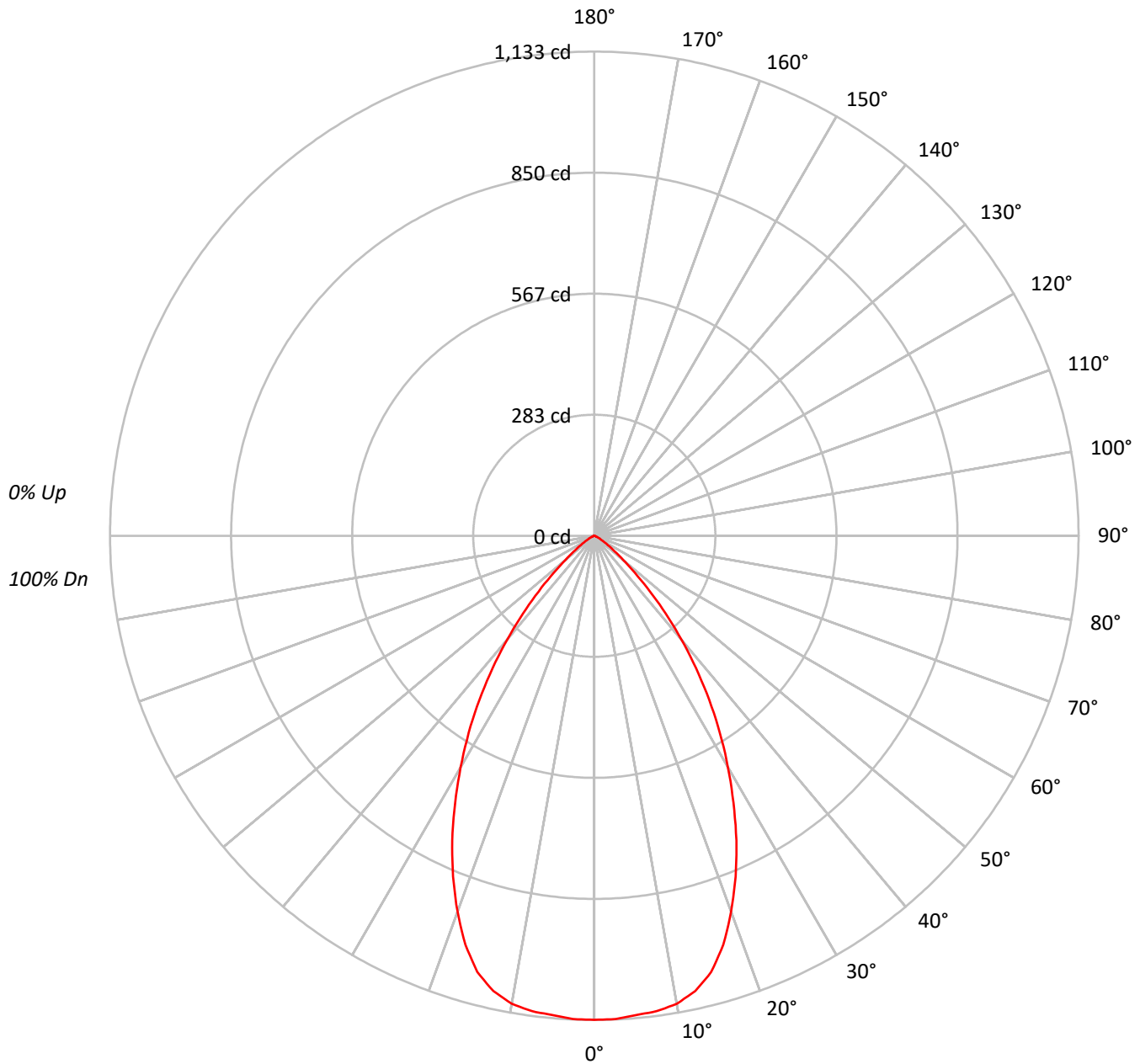
Downlight



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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°	66160
5°	65991
10°	65935
15°	63905
20°	58174
25°	50696
30°	42170
35°	33410
40°	24115
45°	15231
50°	7941
55°	4216
60°	2219
65°	1216
70°	512
75°	564
80°	370
85°	335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15231 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	8.6
10°-20°	293.4	23.5
20°-30°	358.6	28.7
30°-40°	290.9	23.3
40°-50°	145.0	11.6
50°-60°	40.4	3.2
60°-70°	9.2	0.7
70°-80°	2.4	0.2
80°-90°	0.6	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°	759.0	60.8
0°-40°	1050.0	84.2
0°-60°	1235.4	99.0
0°-90°	1247.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1247.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1133	
5°	1126	107
15°	1057	293
25°	787	359
35°	469	291
45°	184	145
55°	41	40
65°	9	9
75°	2	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1132.8
2.5°	1132.0
5°	1125.6
7.5°	1122.0
10°	1111.8
12.5°	1091.2
15°	1056.9
17.5°	1003.3
20°	936.0
22.5°	863.4
25°	786.7
27.5°	704.6
30°	625.3
32.5°	546.8
35°	468.6
37.5°	390.5
40°	316.3
42.5°	246.7
45°	184.4
47.5°	128.5
50°	87.4
52.5°	60.3
55°	41.4
57.5°	28.0
60°	19.0
62.5°	13.2
65°	8.8
67.5°	4.5
70°	3.0
72.5°	2.8
75°	2.5
77.5°	1.7
80°	1.1
82.5°	0.9
85°	0.5
87.5°	0.3
90°	0.0



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— 0°-180°







(END OF REPORT)