

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: P780048

Luminaire Tested: LER4D15D010-EC4DR650215IC9050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780048
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-EC4DR650215IC9050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1232.9 lumens
Efficiency: N/A
Efficacy: 78.0 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



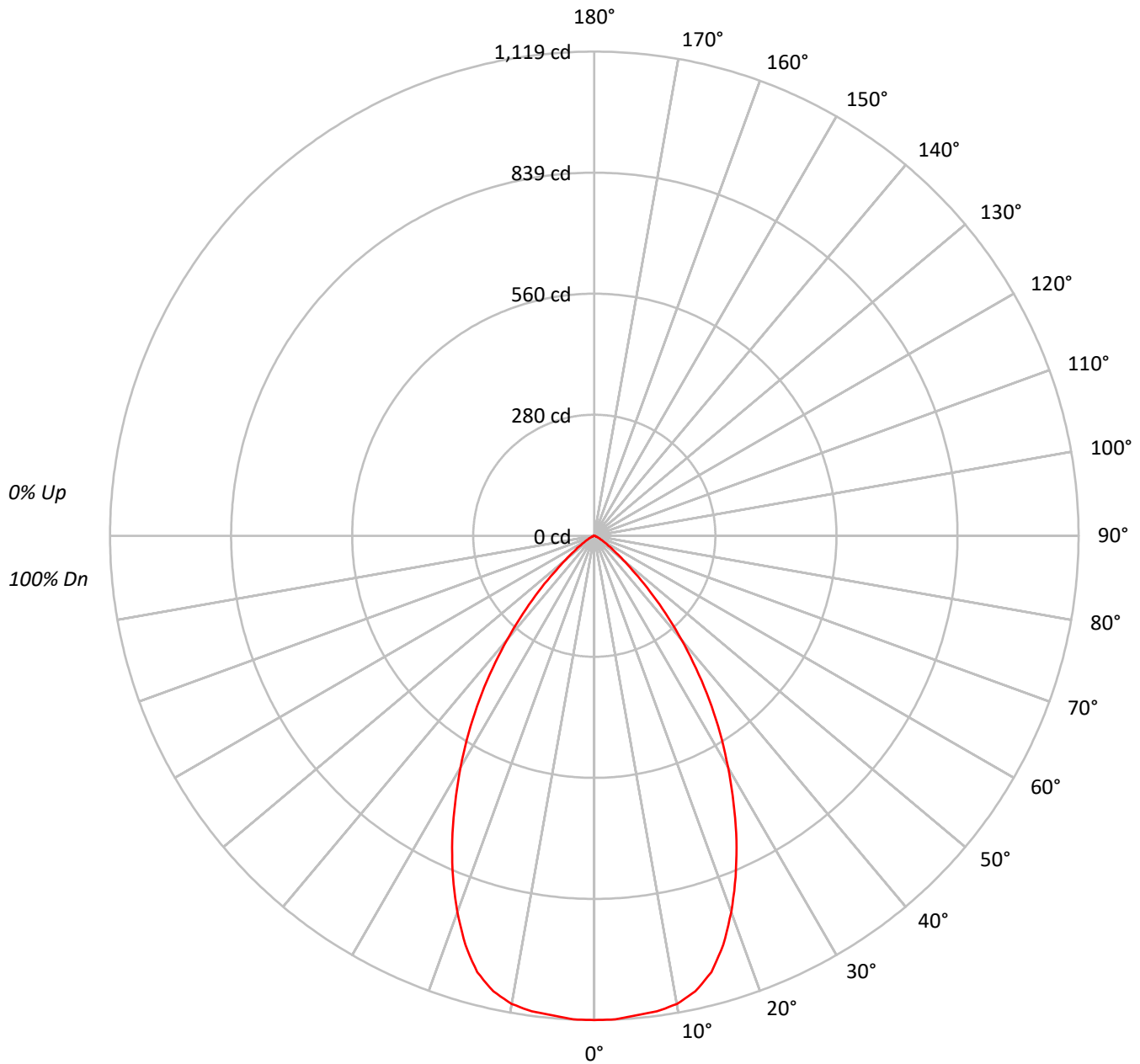
Downlight



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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
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°	65377
5°	65211
10°	65158
15°	63149
20°	57491
25°	50097
30°	41671
35°	33018
40°	23825
45°	15057
50°	7841
55°	4175
60°	2184
65°	1202
70°	512
75°	564
80°	370
85°	335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15057 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	8.6
10°-20°	289.9	23.5
20°-30°	354.3	28.7
30°-40°	287.5	23.3
40°-50°	143.3	11.6
50°-60°	39.9	3.2
60°-70°	9.1	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°	750.1	60.8
0°-40°	1037.6	84.2
0°-60°	1220.8	99.0
0°-90°	1232.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1232.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1119	
5°	1112	106
15°	1044	290
25°	777	354
35°	463	288
45°	182	143
55°	41	40
65°	9	9
75°	2	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1119.4
2.5°	1118.6
5°	1112.3
7.5°	1108.7
10°	1098.7
12.5°	1078.3
15°	1044.4
17.5°	991.4
20°	925.0
22.5°	853.2
25°	777.4
27.5°	696.3
30°	617.9
32.5°	540.4
35°	463.1
37.5°	385.9
40°	312.5
42.5°	243.8
45°	182.3
47.5°	127.0
50°	86.3
52.5°	59.5
55°	41.0
57.5°	27.6
60°	18.7
62.5°	13.0
65°	8.7
67.5°	4.5
70°	3.0
72.5°	2.8
75°	2.5
77.5°	1.7
80°	1.1
82.5°	0.8
85°	0.5
87.5°	0.3
90°	0.0



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— 0°-180°







(END OF REPORT)