

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: P781884

Luminaire Tested: LER4D50D010-EC4DR6540509030-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781884
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: LER4D50D010-EC4DR6540509030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4144.5 lumens
Efficiency: N/A
Efficacy: 88.2 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): 47
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

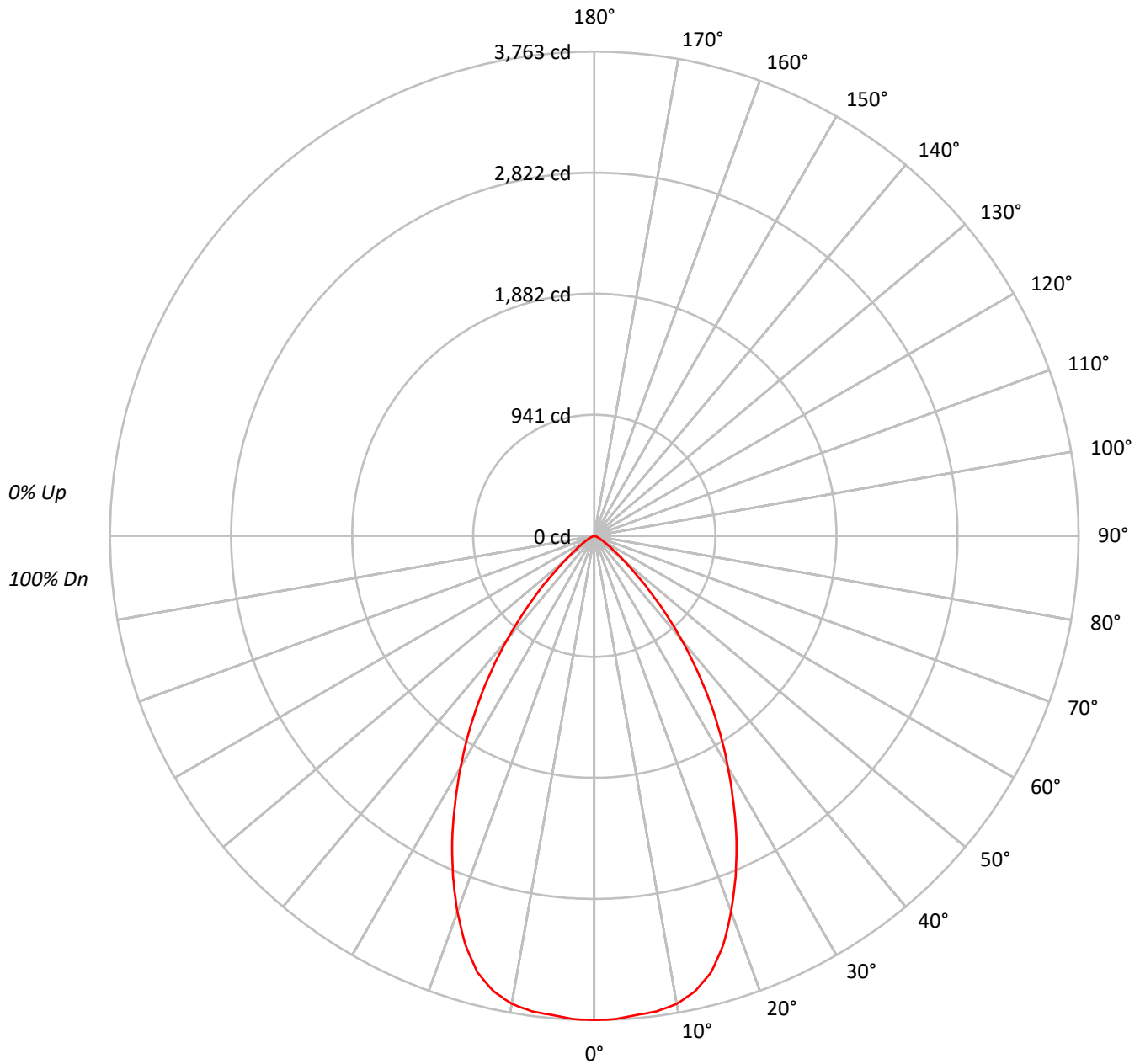


Downlight

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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°	219774
5°	219224
10°	219037
15°	212284
20°	193256
25°	168412
30°	140071
35°	110982
40°	80106
45°	50606
50°	26377
55°	14021
60°	7359
65°	4049
70°	1708
75°	1873
80°	1312
85°	1139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 50606 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.9	8.6
10°-20°	974.5	23.5
20°-30°	1191.2	28.7
30°-40°	966.5	23.3
40°-50°	481.6	11.6
50°-60°	134.3	3.2
60°-70°	30.5	0.7
70°-80°	7.9	0.2
80°-90°	2.1	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°	2521.5	60.8
0°-40°	3488.0	84.2
0°-60°	4103.9	99.0
0°-90°	4144.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4144.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3763	
5°	3739	356
15°	3511	974
25°	2613	1191
35°	1557	966
45°	613	482
55°	138	134
65°	29	31
75°	8	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3763.0
2.5°	3760.3
5°	3739.3
7.5°	3727.1
10°	3693.4
12.5°	3624.8
15°	3510.9
17.5°	3332.8
20°	3109.4
22.5°	2868.3
25°	2613.4
27.5°	2340.8
30°	2077.0
32.5°	1816.5
35°	1556.6
37.5°	1297.3
40°	1050.7
42.5°	819.5
45°	612.7
47.5°	426.9
50°	290.3
52.5°	200.2
55°	137.7
57.5°	92.9
60°	63.0
62.5°	43.7
65°	29.3
67.5°	14.9
70°	10.0
72.5°	9.4
75°	8.3
77.5°	5.5
80°	3.9
82.5°	2.8
85°	1.7
87.5°	1.1
90°	0.0



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— 0°-180°







(END OF REPORT)