

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: P781891

Luminaire Tested: LER4D50D010-EC4DR6540509035-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781891
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-EC4DR6540509035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4286.2 lumens
Efficiency: N/A
Efficacy: 91.2 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

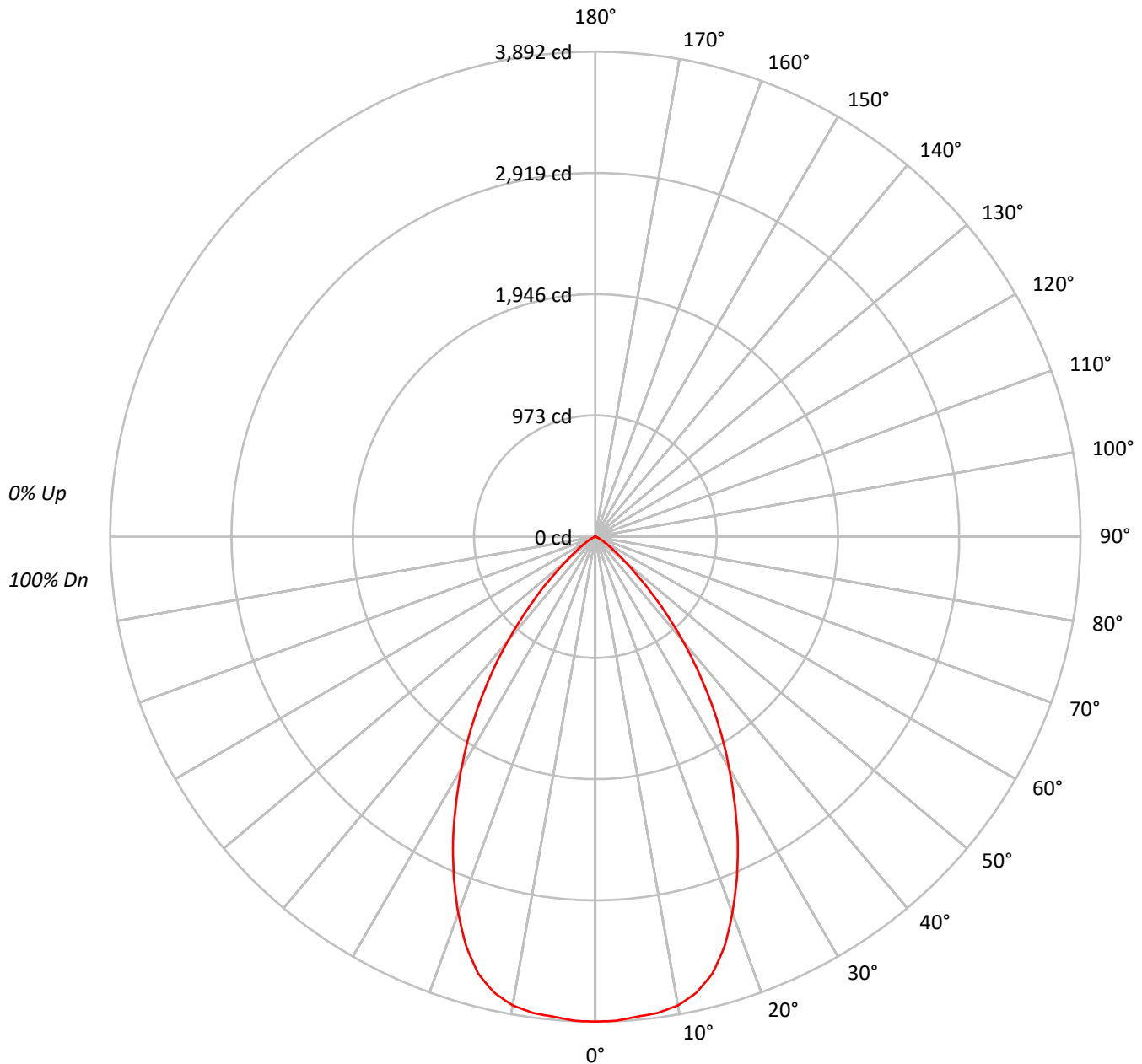


Downlight

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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	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°	227296
5°	226722
10°	226533
15°	219545
20°	199869
25°	174173
30°	144866
35°	114783
40°	82843
45°	52341
50°	27276
55°	14500
60°	7616
65°	4187
70°	1759
75°	1941
80°	1345
85°	1139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 52341 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.0	8.6
10°-20°	1007.8	23.5
20°-30°	1231.9	28.7
30°-40°	999.5	23.3
40°-50°	498.1	11.6
50°-60°	138.9	3.2
60°-70°	31.6	0.7
70°-80°	8.2	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°	2607.8	60.8
0°-40°	3607.4	84.2
0°-60°	4244.4	99.0
0°-90°	4286.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4286.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3892	
5°	3867	368
15°	3631	1008
25°	2703	1232
35°	1610	1000
45°	634	498
55°	142	139
65°	30	32
75°	9	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3891.8
2.5°	3889.0
5°	3867.2
7.5°	3854.6
10°	3819.8
12.5°	3748.8
15°	3631.0
17.5°	3446.9
20°	3215.8
22.5°	2966.5
25°	2702.8
27.5°	2420.9
30°	2148.1
32.5°	1878.7
35°	1609.9
37.5°	1341.7
40°	1086.6
42.5°	847.6
45°	633.7
47.5°	441.5
50°	300.2
52.5°	207.0
55°	142.4
57.5°	96.1
60°	65.2
62.5°	45.2
65°	30.3
67.5°	15.4
70°	10.3
72.5°	9.7
75°	8.6
77.5°	5.7
80°	4.0
82.5°	2.9
85°	1.7
87.5°	1.1
90°	0.0



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— 0°-180°







(END OF REPORT)