

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: P781247

Luminaire Tested: LER4D40BD010-EC4DR3040509040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D40BD010-EC4DR3040509040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3888.2 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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

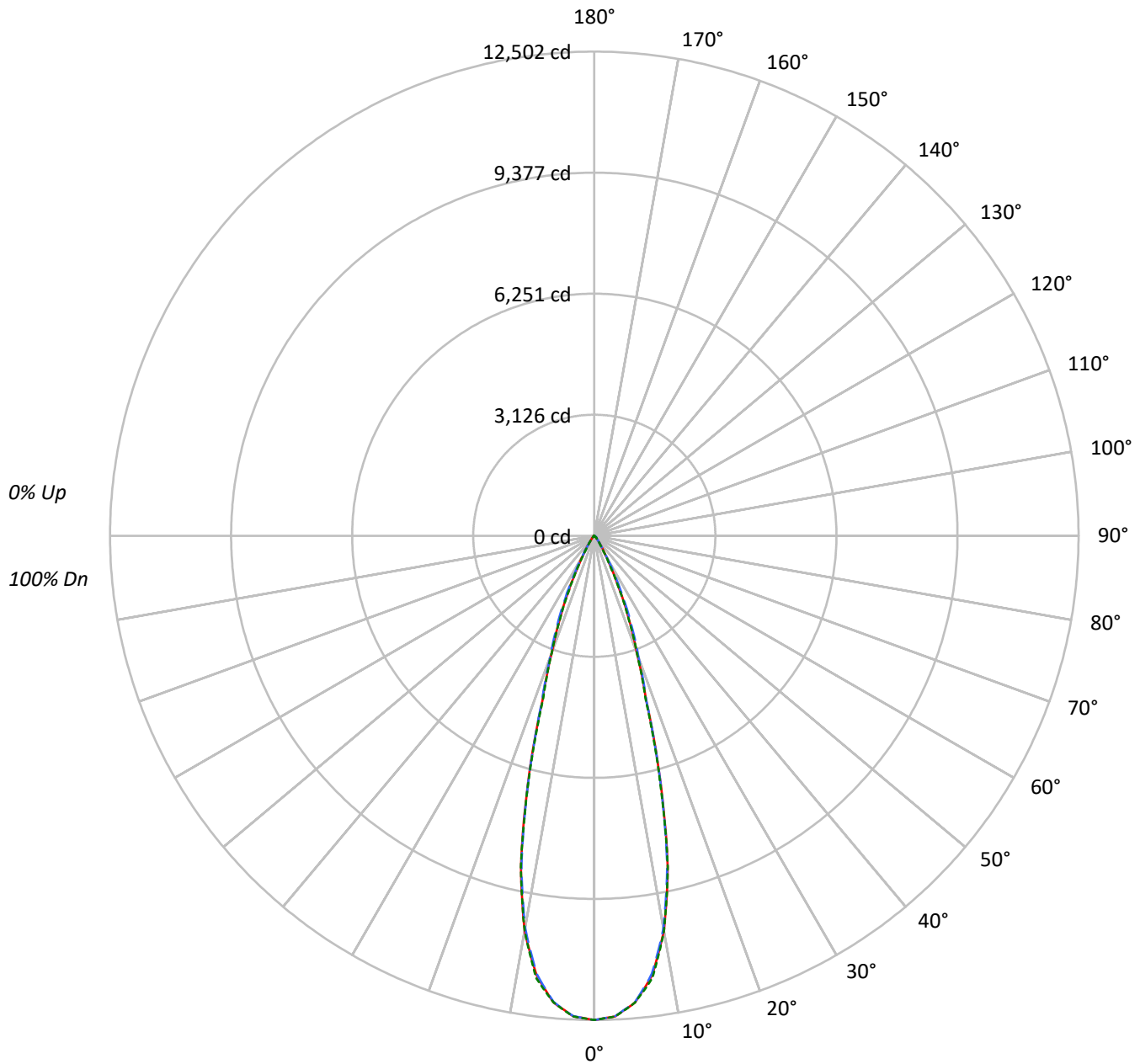


Downlight

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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	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	956968	956968	956968
5°	929498	928414	929544
10°	805083	799409	804896
15°	525282	522461	519830
20°	261196	270995	260846
25°	131574	148373	128880
30°	52677	57397	45898
35°	24435	23398	19614
40°	10552	11711	9932
45°	7437	9234	7512
50°	2560	6728	2703
55°	1468	2789	1561
60°	1041	1225	1041
65°	670	670	670
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9234 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1099.4	28.3
10°-20°	1770.6	45.5
20°-30°	765.1	19.7
30°-40°	174.4	4.5
40°-50°	59.9	1.5
50°-60°	14.6	0.4
60°-70°	3.8	0.1
70°-80°	0.4	0.0
80°-90°	0.0	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°	3635.1	93.5
0°-40°	3809.5	98.0
0°-60°	3884.0	99.9
0°-90°	3888.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3888.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12502	12502	12502	12502	12502	
5°	12097	12086	12083	12108	12098	1100
15°	6629	6549	6593	6572	6560	1775
25°	1558	1617	1757	1576	1526	746
35°	262	267	250	249	210	177
45°	69	85	85	85	69	49
55°	11	12	21	12	12	11
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12502.3	12502.3	12502.3	12502.3	12502.3
2.5°	12419.5	12410.9	12415.8	12421.9	12424.4
5°	12097.2	12085.5	12083.1	12108.2	12097.8
7.5°	11447.2	11430.6	11405.4	11462.5	11515.9
10°	10358.2	10339.8	10285.2	10312.2	10355.8
12.5°	8750.6	8691.1	8689.9	8775.8	8764.1
15°	6628.7	6548.9	6593.1	6571.6	6559.9
17.5°	4457.6	4426.9	4485.8	4468.0	4391.3
20°	3206.6	3214.6	3326.9	3270.4	3202.3
22.5°	2339.9	2368.7	2501.9	2356.5	2303.1
25°	1557.9	1616.8	1756.8	1575.7	1526.0
27.5°	958.2	985.2	1127.0	945.9	918.9
30°	596.0	582.5	649.4	557.4	519.3
32.5°	391.0	373.8	395.3	354.8	324.1
35°	261.5	267.0	250.4	248.6	209.9
37.5°	163.3	187.8	165.7	176.8	135.0
40°	105.6	136.3	117.2	129.5	99.4
42.5°	86.5	105.0	96.4	102.5	88.4
45°	68.7	85.3	85.3	85.3	69.4
47.5°	38.1	57.1	73.0	58.3	40.5
50°	21.5	28.8	56.5	30.1	22.7
52.5°	14.7	16.6	38.7	17.2	15.3
55°	11.0	11.7	20.9	12.3	11.7
57.5°	8.6	9.2	11.0	9.2	8.6
60°	6.8	6.8	8.0	7.4	6.8
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.8	2.5	2.5	2.5	2.5
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)