

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: P781708

Luminaire Tested: LER4D50D010-EC4DR3040509024-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781708
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: LER4D50D010-EC4DR3040509024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3996.6 lumens
Efficiency: N/A
Efficacy: 85.0 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): 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

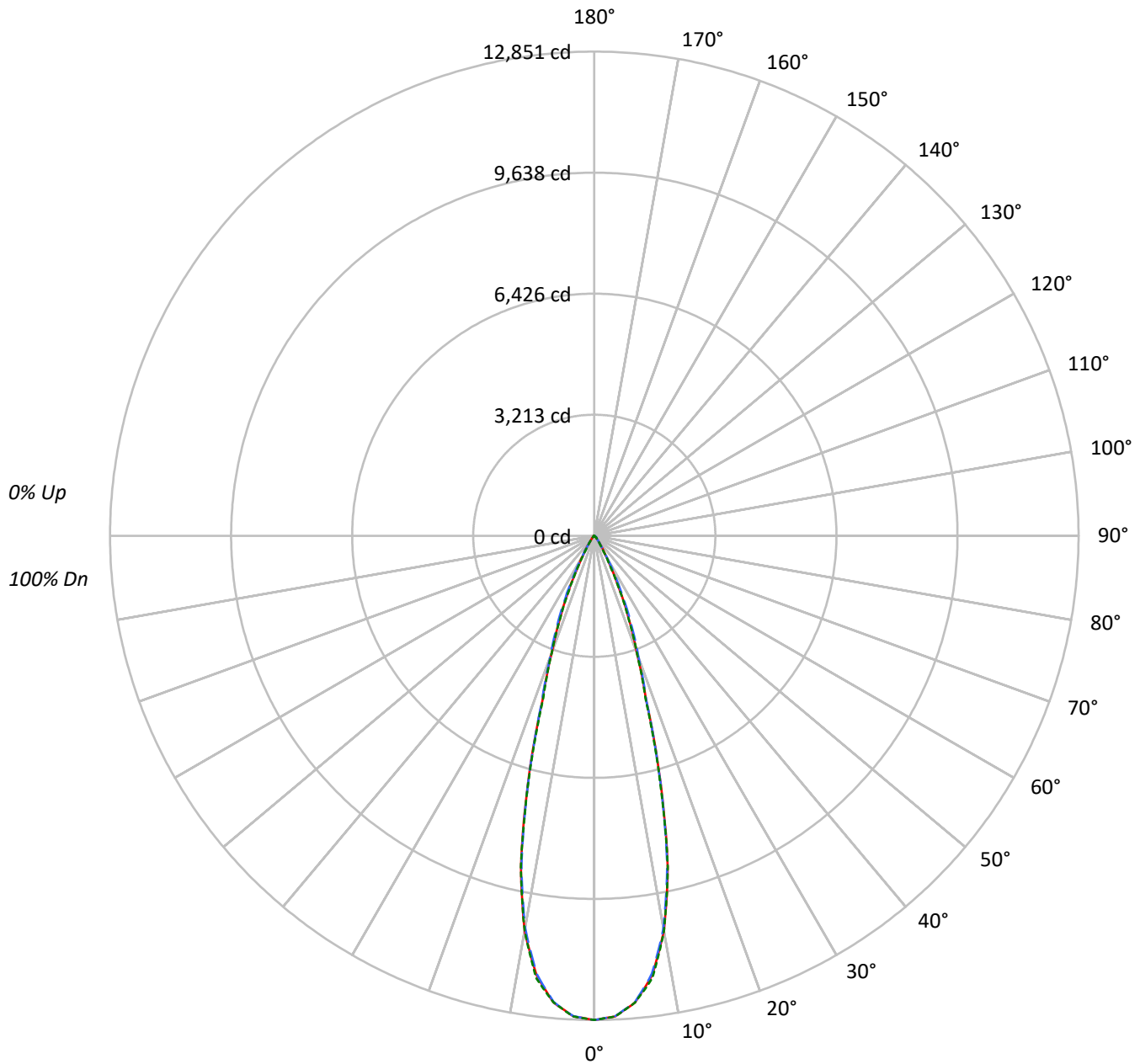


Downlight

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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	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°	983667	983667	983667
5°	955430	954316	955476
10°	827545	821708	827351
15°	539934	537034	534331
20°	268486	278554	268120
25°	135240	152511	132470
30°	54144	58997	47180
35°	25117	24052	20165
40°	10841	12040	10212
45°	7653	9493	7718
50°	2632	6907	2775
55°	1521	2869	1601
60°	1056	1255	1056
65°	688	688	688
70°	425	291	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9493 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1130.1	28.3
10°-20°	1820.0	45.5
20°-30°	786.5	19.7
30°-40°	179.2	4.5
40°-50°	61.6	1.5
50°-60°	15.0	0.4
60°-70°	3.9	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°	3736.5	93.5
0°-40°	3915.7	98.0
0°-60°	3992.3	99.9
0°-90°	3996.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3996.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12851	12851	12851	12851	12851	
5°	12435	12423	12420	12446	12435	1131
15°	6814	6732	6777	6755	6743	1824
25°	1601	1662	1806	1620	1568	767
35°	269	274	257	256	216	182
45°	71	88	88	88	71	50
55°	11	12	22	13	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°	12851.1	12851.1	12851.1	12851.1	12851.1
2.5°	12765.9	12757.1	12762.1	12768.4	12771.0
5°	12434.7	12422.7	12420.2	12446.0	12435.3
7.5°	11766.5	11749.5	11723.6	11782.3	11837.2
10°	10647.2	10628.3	10572.1	10599.9	10644.7
12.5°	8994.8	8933.6	8932.3	9020.6	9008.6
15°	6813.6	6731.6	6777.0	6754.9	6742.9
17.5°	4581.9	4550.4	4611.0	4592.7	4513.8
20°	3296.1	3304.3	3419.7	3361.7	3291.6
22.5°	2405.2	2434.8	2571.7	2422.2	2367.3
25°	1601.3	1661.9	1805.8	1619.6	1568.5
27.5°	984.9	1012.7	1158.4	972.3	944.5
30°	612.6	598.8	667.5	572.9	533.8
32.5°	401.9	384.2	406.3	364.7	333.1
35°	268.8	274.5	257.4	255.5	215.8
37.5°	167.8	193.1	170.4	181.7	138.8
40°	108.5	140.1	120.5	133.1	102.2
42.5°	89.0	107.9	99.1	105.4	90.9
45°	70.7	87.7	87.7	87.7	71.3
47.5°	39.1	58.7	75.1	59.9	41.6
50°	22.1	29.7	58.0	30.9	23.3
52.5°	15.1	17.0	39.7	17.7	15.8
55°	11.4	12.0	21.5	12.6	12.0
57.5°	8.8	9.5	11.4	9.5	8.8
60°	6.9	6.9	8.2	7.6	6.9
62.5°	5.0	5.0	5.7	5.0	5.0
65°	3.8	3.8	3.8	3.8	3.8
67.5°	1.9	2.5	2.5	2.5	2.5
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	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)