

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: P779555

Luminaire Tested: LER4D10D010-EC4DR300210IC9027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779555
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: LER4D10D010-EC4DR300210IC9027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

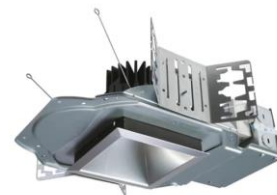
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 945.7 lumens
Efficiency: N/A
Efficacy: 80.8 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): 11.7
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



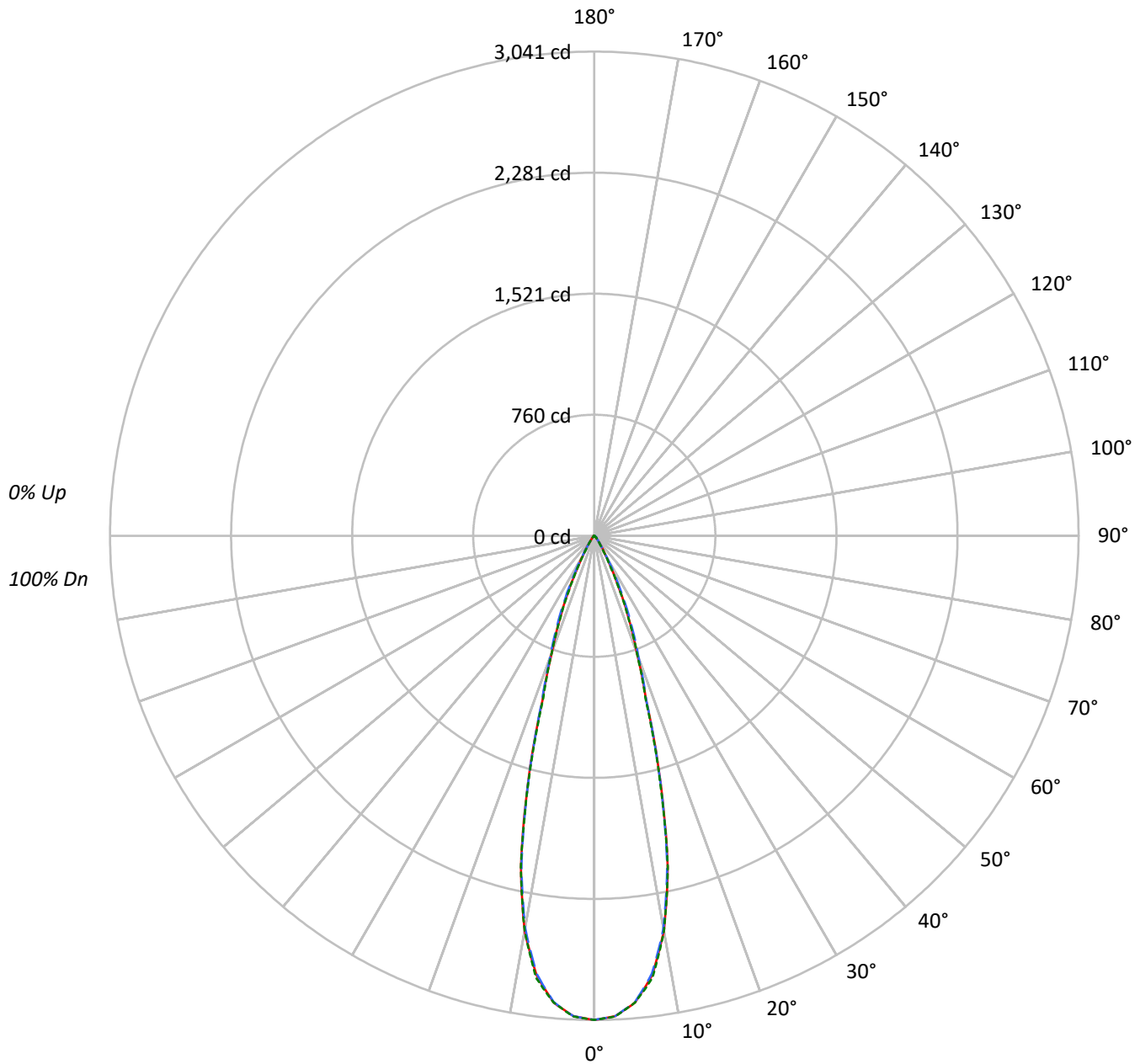
Downlight



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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					0
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	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	98	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	94	89	86	98	93	89	86		91	88	85		90	86	84		88	86	83
6	97	90	85	82	95	89	85	82		88	84	81		87	83	81		85	83	80
7	94	87	82	79	92	86	82	79		85	81	78		84	81	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		80	76	73		79	75	73		78	75	73
10	85	78	74	71	85	78	74	71		77	73	71		76	73	71		76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	232753	232753	232753
5°	226074	225813	226082
10°	195811	194435	195764
15°	127756	127075	126433
20°	63527	65914	63446
25°	32000	36088	31350
30°	12816	13965	11163
35°	5943	5691	4766
40°	2568	2848	2418
45°	1808	2241	1819
50°	619	1643	655
55°	360	681	387
60°	260	291	260
65°	163	163	163
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2241 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.4	28.3
10°-20°	430.6	45.5
20°-30°	186.1	19.7
30°-40°	42.4	4.5
40°-50°	14.6	1.5
50°-60°	3.6	0.4
60°-70°	0.9	0.1
70°-80°	0.1	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°	884.1	93.5
0°-40°	926.5	98.0
0°-60°	944.7	99.9
0°-90°	945.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	945.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3041	3041	3041	3041	3041	
5°	2942	2940	2939	2945	2942	268
15°	1612	1593	1604	1598	1596	432
25°	379	393	427	383	371	181
35°	64	65	61	60	51	43
45°	17	21	21	21	17	12
55°	3	3	5	3	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	3040.8	3040.8	3040.8	3040.8	3040.8
2.5°	3020.7	3018.6	3019.8	3021.3	3021.9
5°	2942.3	2939.5	2938.9	2945.0	2942.4
7.5°	2784.2	2780.2	2774.1	2787.9	2800.9
10°	2519.3	2514.9	2501.6	2508.1	2518.7
12.5°	2128.3	2113.8	2113.6	2134.5	2131.6
15°	1612.2	1592.8	1603.6	1598.4	1595.5
17.5°	1084.2	1076.7	1091.1	1086.7	1068.0
20°	779.9	781.8	809.2	795.4	778.9
22.5°	569.1	576.1	608.5	573.1	560.2
25°	378.9	393.2	427.3	383.2	371.2
27.5°	233.1	239.6	274.1	230.0	223.5
30°	145.0	141.7	158.0	135.6	126.3
32.5°	95.1	90.9	96.1	86.3	78.8
35°	63.6	64.9	60.9	60.4	51.0
37.5°	39.7	45.7	40.3	43.0	32.8
40°	25.7	33.1	28.5	31.5	24.2
42.5°	21.0	25.6	23.4	24.9	21.5
45°	16.7	20.7	20.7	20.7	16.8
47.5°	9.3	13.9	17.8	14.2	9.9
50°	5.2	7.0	13.8	7.3	5.5
52.5°	3.6	4.0	9.4	4.2	3.7
55°	2.7	2.9	5.1	3.0	2.9
57.5°	2.1	2.2	2.7	2.2	2.1
60°	1.7	1.7	1.9	1.8	1.7
62.5°	1.2	1.2	1.3	1.2	1.2
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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)